

2-2015

## Morris Catalog, 2015-17

University of Minnesota, Morris

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UNIVERSITY OF MINNESOTA  
**MORRIS**

**Morris Catalog  
2015–17**



# University of Minnesota Morris Catalog

2015–2017

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UNIVERSITY OF MINNESOTA  
**MORRIS**

## 2015–2016 Academic Calendar

### Fall Semester 2015

|   |  |
|---|--|
| Faculty start date.....                 | Monday, August 17, 2015                            |
| New student orientation.....            | Sunday–Tuesday, August 23–25, 2015                 |
| Fall semester classes begin.....        | Wednesday, August 26, 2015                         |
| Labor Day holiday.....                  | Monday, September 7, 2015                          |
| First half semester classes end.....    | Friday, October 16, 2015                           |
| Fall break (no classes).....            | Monday–Tuesday, October 19–20, 2015                |
| Second half semester classes begin..... | Wednesday, October 21, 2015                        |
| Thanksgiving holiday.....               | Thursday–Friday, November 26–27, 2015              |
| Last day of instruction.....            | Friday, December 11, 2015                          |
| Study day.....                          | Saturday, December 12, 2015                        |
| Fall semester final examinations.....   | Monday–Thursday, December 14–17, 2015              |
| Christmas holiday.....                  | Thursday–Friday, December 24–25, 2015              |
| New Year’s holiday.....                 | Thursday–Friday, December 31, 2015–January 1, 2016 |

### Spring Semester 2016

|   |                                  |
|---|----------------------------------|
| Martin Luther King Jr. holiday.....     | Monday, January 18, 2016         |
| Spring semester classes begin.....      | Tuesday, January 19, 2016        |
| First half semester classes end.....    | Friday, March 11, 2016           |
| Spring break (no classes).....          | Monday–Friday, March 14–18, 2016 |
| Floating holiday.....                   | Friday, March 18, 2016           |
| Second half semester classes begin..... | Monday, March 21, 2016           |
| Last day of instruction.....            | Friday, May 6, 2016              |
| Study day.....                          | Saturday, May 7, 2016            |
| Spring semester final examinations..... | Monday–Thursday, May 9–12, 2016  |
| Commencement.....                       | Saturday, May 14, 2016           |

### May Session 2016

|                                |                      |
|--------------------------------|----------------------|
| May session classes begin..... | Monday, May 16, 2016 |
| Memorial Day holiday.....      | Monday, May 30, 2016 |
| May session classes end.....   | Friday, June 3, 2016 |

### Summer Session 2016

|                               |                                       |
|-------------------------------|---------------------------------------|
| Summer session term 1.....    | Monday, May 23–Friday, June 24, 2016  |
| Summer session term 2.....    | Monday, June 27–Friday, July 29, 2016 |
| Memorial Day holiday.....     | Monday, May 30, 2016                  |
| Independence Day holiday..... | Monday, July 4, 2016                  |

## 2016–2017 Academic Calendar

### Fall Semester 2016

|   |   |
|---|---|
| Faculty start date.....                 | Monday, August 15, 2016                           |
| New student orientation.....            | Sunday–Tuesday, August 21–23, 2016                |
| Fall semester classes begin.....        | Wednesday, August 24, 2016                        |
| Labor Day holiday.....                  | Monday, September 5, 2016                         |
| First half semester classes end.....    | Friday, October 14, 2016                          |
| Fall break (no classes).....            | Monday–Tuesday, October 17–18, 2016               |
| Second half semester classes begin..... | Wednesday, October 19, 2016                       |
| Thanksgiving holiday.....               | Thursday–Friday, November 24–25, 2016             |
| Last day of instruction.....            | Friday, December 9, 2016                          |
| Study day.....                          | Saturday, December 12, 2016                       |
| Fall semester final examinations.....   | Tuesday–Friday, December 13–16, 2016              |
| Christmas holiday.....                  | Friday–Monday, December 23–26, 2016               |
| New Year’s holiday.....                 | Friday, December 30, 2016–Monday, January 2, 2017 |

### Spring Semester 2017

|   |                                  |
|---|----------------------------------|
| Martin Luther King Jr. holiday.....     | Monday, January 16, 2017         |
| Spring semester classes begin.....      | Tuesday, January 17, 2017        |
| First half semester classes end.....    | Friday, March 10, 2017           |
| Spring break (no classes).....          | Monday–Friday, March 13–17, 2017 |
| Floating holiday.....                   | Friday, March 17, 2017           |
| Second half semester classes begin..... | Monday, March 20, 2017           |
| Last day of instruction.....            | Friday, May 5, 2017              |
| Study day.....                          | Saturday, May 8, 2017            |
| Spring semester final examinations..... | Tuesday–Friday, May 9–12, 2017   |
| Commencement.....                       | Saturday, May 13, 2017           |

### May Session 2017

|                                |                      |
|--------------------------------|----------------------|
| May session classes begin..... | Monday, May 15, 2017 |
| Memorial Day holiday.....      | Monday, May 29, 2017 |
| May session classes end.....   | Friday, June 2, 2017 |

### Summer Session 2017

|                               |                                       |
|-------------------------------|---------------------------------------|
| Summer session term 1.....    | Monday, May 22–Friday, June 23, 2017  |
| Memorial Day holiday.....     | Monday, May 29, 2017                  |
| Summer session term 2.....    | Monday, June 26–Friday, July 28, 2017 |
| Independence Day holiday..... | Tuesday, July 4, 2017                 |

For additional academic calendars for future years, visit [www1.umn.edu/usenate/calendars/calendarpage.html](http://www1.umn.edu/usenate/calendars/calendarpage.html).

## University Policies

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# University Policies

## The University of Minnesota

The University of Minnesota, Morris (UMM) is one of the five campuses that make up the University of Minnesota. The other four campus locations are Crookston, Duluth, Rochester, and the Twin Cities. With more than 67,000 students enrolled across all five campuses, the University of Minnesota is one of the largest public universities in the United States. Founded in 1851 as a land grant institution, the University serves Minnesota's families and businesses, while contributing knowledge and innovations to help build a healthier, sustainable world.

## University of Minnesota Mission Statement

The University of Minnesota, founded in the belief that all people are enriched by understanding, is dedicated to the advancement of learning and the search for truth; to the sharing of this knowledge through education for a diverse community; and to the application of this knowledge to benefit the people of the state, the nation, and the world. The University's mission, carried out on multiple campuses and throughout the state, is threefold:

- **Research and Discovery**—Generate and preserve knowledge, understanding, and creativity by conducting high-quality research, scholarship, and artistic activity that benefit students, scholars, and communities across the state, the nation, and the world.
- **Teaching and Learning**—Share that knowledge, understanding, and creativity by providing a broad range of educational programs in a strong and diverse community of learners and teachers, and prepare graduate, professional, and undergraduate students, as well as non-degree-seeking students interested in continuing education and lifelong learning, for active roles in a multiracial and multicultural world.
- **Outreach and Public Service**—Extend, apply, and exchange knowledge between the University and society by applying scholarly expertise to community problems, by helping organizations and individuals respond to their changing environments, and by making the knowledge and resources created and preserved at the University accessible to the citizens of the state, the nation, and the world.

In all of its activities, the University strives to sustain an open exchange of ideas in an environment that embodies the values of academic freedom, responsibility, integrity, and cooperation; that provides an atmosphere of mutual respect, free from racism, sexism, and other forms of prejudice and intolerance; that assists individuals, institutions, and communities in responding to a continuously changing world; that is conscious of and responsive to the needs of the many communities it is committed to serving; that

creates and supports partnerships within the University, with other educational systems and institutions, and with communities to achieve common goals; and that inspires, sets high expectations for, and empowers the individuals within its community.

## Catalog Use

This catalog covers academic years 2015–16 and 2016–17. The *Morris Catalog* is in effect for nine years; this catalog is in effect from fall 2015 through the end of summer session 2024. *Students returning to Morris after an absence should contact the Office of the Registrar to determine which catalog will best fit their graduation plans.*

This publication is available in alternative formats upon request. Please contact Disability Resource Center, University of Minnesota, Morris, 362 Briggs Library, 600 East 4th Street, Morris, MN 56267-2132; 320-589-6178.

This catalog, produced by the Office of the Vice Chancellor for Academic Affairs and Dean, is also available in electronic format on the Internet and may be accessed at [www.catalogs.umn.edu/morris](http://www.catalogs.umn.edu/morris).

## Online Learning

The Morris Online Learning program offers the same quality education available in the classroom through web-based college instruction, including small classes and one-on-one interaction with faculty in an interactive virtual classroom environment. Current students, nontraditional students, and new students are welcome. All online courses earn credits equivalent to credits earned on campus for the same course. These credits may be applied toward a degree program at the Morris campus or other colleges in Minnesota and throughout the United States. Courses are transferable to other colleges following guidelines of the institution evaluating your transfer credits.

Information about Morris Online Learning can be found at [onlinelearning.morris.umn.edu/](http://onlinelearning.morris.umn.edu/). Online learning courses are featured at [onlinelearning.morris.umn.edu/courses/](http://onlinelearning.morris.umn.edu/courses/) and answers to the most frequently asked questions are listed at [onlinelearning.morris.umn.edu/faq/](http://onlinelearning.morris.umn.edu/faq/).

## Summer Term

Summer Term at Morris provides an excellent opportunity for students to accelerate degree completion, meet general education requirements, make up lost credits, work while earning credits, or take a Morris course while living or studying at another location. Summer Term includes May Session, Summer Session I, and Summer Session II. Courses are open to students from other colleges and community members.

Information about Morris's summer term can be found at [www.morris.umn.edu/academics/summerterm/](http://www.morris.umn.edu/academics/summerterm/).

## Equal Opportunity

The University of Minnesota shall provide equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression.

Inquiries regarding compliance may be directed to the Director, Office of Equal Opportunity and Affirmative Action, University of Minnesota, 274 McNamara Alumni Center, 200 Oak Street S.E., Minneapolis, MN 55455; phone: 612-624-9547; email: [eoaa@umn.edu](mailto:eoaa@umn.edu) or to the Director, Human Resources, University of Minnesota, Morris, 309 Behmler Hall, 600 East 4th Street, Morris, MN 56267; phone: 320-589-6024, email: [mattsosj@morris.umn.edu](mailto:mattsosj@morris.umn.edu).

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## Immunization

All students born after 1956 who take more than one University class are required under Minnesota law to document their immunization history by submitting a Health History form provided in the New Student Guide at [www.morris.umn.edu/services/hlth\\_serv/immunization.html](http://www.morris.umn.edu/services/hlth_serv/immunization.html). This form must be filled out and returned to the Health Service within 45 days after the beginning of the first term of enrollment in order for students to continue registering for classes at the University. Complete instructions accompany the form.

## Extracurricular Events During the Study Day/Finals Week Period

It is University policy to prohibit classes, University-sponsored trips, or extracurricular events on study day and during the final examination period. Under certain rare

circumstances, exceptions to the prohibition on trips or events are possible. Students who are unable to complete course requirements during final examination period as a result of the exemption shall be provided an alternative and timely means to do so. For more information, refer to the policy link at [www.policy.umn.edu/Policies/Education/Education/EXAM.html](http://www.policy.umn.edu/Policies/Education/Education/EXAM.html).

## Smoke-Free Campus Policy

Smoking is prohibited in all buildings of the University of Minnesota, Morris campus.

## Email

The University of Minnesota provides new students with a free email account. University-assigned student email accounts are the official means of communication with all students. Students are responsible for all information sent to them via the University-assigned email account. Students who choose to forward the University email account are still responsible for the information (including attachments) that is sent to any other email account.

Information regarding administrative deletion of email accounts can be found at [it.umn.edu/google-account-end-life-policies](http://it.umn.edu/google-account-end-life-policies).

The contact person on the Morris campus is the registrar. For current policy information see [www.policy.umn.edu/Policies/Education/Student/EMAIL.html](http://www.policy.umn.edu/Policies/Education/Student/EMAIL.html).

## University of Minnesota Policy Library

Official administrative policies and procedures are retained and maintained in the University's online policy library to guide and direct the University community (faculty, staff and students). For more information, visit the Uwide Policy Library at [policy.umn.edu](http://policy.umn.edu).





## General Information

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## General Information

### Morris Campus

Located on 160 acres in west central Minnesota, the University of Minnesota, Morris is the third educational institution on a campus that began in 1887. The campus was originally an American Indian boarding school, operated for 22 years, first by the Sisters of Mercy and then by the federal government. In 1909, as the federal government reduced the number of nonreservation boarding schools, the campus and facilities were deeded by Congress to the State of Minnesota on the condition “that Indian pupils shall at all times be admitted to such school free of charge for tuition and on terms of equality with white pupils.” Beginning in 1910 and for the next 53 years, the West Central School of Agriculture offered a boarding high school experience for rural young people under the auspices of the University of Minnesota’s Institute of Agriculture. To meet changing educational needs, as the School of Agriculture was being phased out, the Board of Regents in 1959 established the University of Minnesota, Morris (UMM).

Conceived at the outset as a four-year liberal arts college, Morris was to provide an educational opportunity for students throughout the state and region who sought a rigorous and focused undergraduate liberal education in a small public college setting. The guiding principles of selective admission, controlled growth, and academic excellence in a residential campus atmosphere have not changed for more than five decades.

With approximately 1,900 students and 125 teaching faculty, Morris combines the residential environment of the small liberal arts college with the advantages of being a campus of the University of Minnesota. The members of the faculty, representing more than 25 academic fields, are organized into four divisions: Education, Humanities, Science and Mathematics, and Social Sciences. A 15 to 1 student-faculty ratio and a strong institutional commitment to individual attention bring Morris students into frequent contact with faculty; undergraduates often collaborate with faculty in research activities and artistic performances.

The Morris student body is diverse and talented. The campus currently is the collegiate home for students from throughout Minnesota, approximately 30 other states, and 15 foreign countries. In 2014, 26 percent were students of color and 9 percent were international students. American Indian students comprise 17 percent of the student body, making Morris the only baccalaureate college in the Upper Midwest eligible for U.S. Department of Education designation as a Native American Serving Non-tribal Institution. Also, in 2014, 17 percent of entering freshmen ranked in the top 5 percent of their high school class; 27 percent were in the top 10 percent; and 55 percent were in the top 25 percent.

There are more than 90 student organizations, clubs, committees, and special interest groups at Morris. Throughout the year, the campus community and residents of the region enjoy a variety of cultural and co-curricular activities—theatre productions, concerts, recitals, music festivals, lectures, and athletic events.

Morris helped found the Council of Public Liberal Arts Colleges (COPLAC) in 1992. This national organization has 29 member colleges that share a common commitment to academic excellence and concern for undergraduate student development. The council sponsors professional development conferences for faculty in various disciplines and helps tell the public liberal arts story. The COPLAC website can be viewed at [www.coplac.org](http://www.coplac.org).

### University of Minnesota, Morris Mission

The University of Minnesota, Morris provides a rigorous undergraduate liberal arts education, preparing its students to be global citizens who value and pursue intellectual growth, civic engagement, intercultural competence, and environmental stewardship.

As a public land-grant institution, Morris is a center for education, culture, and research for the region, nation, and world. Morris is committed to outstanding teaching, dynamic learning, innovative faculty and student scholarship and creative activity, and public outreach. Our residential academic setting fosters collaboration, diversity, and a deep sense of community.

### Morris Student Learning Outcomes

Morris has adopted the following Student Learning Outcomes. All students are expected to have gained, by the time of graduation:

1. *Knowledge of Human Cultures and the Physical and Natural World through:*

- Core studies in the liberal arts: arts, histories, humanities, languages, mathematics, sciences, and social sciences
- In-depth study in a particular field: its schools of thought, advanced theories, language, and methods of inquiry
- Engagement with big questions, both contemporary and enduring

2. *Intellectual and Practical Skills, practiced extensively across students’ college experiences, including:*

- Inquiry and analysis
- Critical thinking and problem-solving
- Creative thinking and artistic expression
- Written, multi-media, and oral communication
- Quantitative literacy

- Information and technology literacy
  - Collaboration
3. *An Understanding of the Roles of Individuals in Society, through active involvement with diverse communities and challenges, including:*
- Civic knowledge and engagement—local and global
  - Intercultural knowledge and competence
  - Aesthetic/artistic engagement
  - Environmental stewardship
  - Ethical reasoning and actions
4. *Capacity for Integrative Learning, including:*
- Synthesis and advanced accomplishment across general and specialized studies, and through co- and extra-curricular activities
  - Application of knowledge, skills, and responsibilities to new settings and progressively more complex problems
  - Skills for sustained learning and personal development

## Accreditation

The University of Minnesota, Morris is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. Professional accreditation for elementary and secondary teacher preparation has been granted by the National Council for Accreditation of Teacher Education and the Minnesota Board of Teaching.

## Academic Programs

Morris's academic programs offer preparation for most of the professions and several specialized occupational areas. Each student program includes studies in three broad areas of knowledge—the humanities, the natural sciences, and the social sciences.

## Majors

Morris students may choose a four-year curriculum leading to the bachelor of arts degree with a major in any of the following fields:

- American Indian Studies
- Anthropology
- Art History
- Biology
- Chemistry
- Communication, Media, and Rhetoric
- Computer Science
- Economics
- Education
  - Secondary Education (licensure only)
  - Coaching (endorsement only)
- Elementary Education
- English
- Environmental Science
- Environmental Studies
- French

- Gender, Women, and Sexuality Studies
- Geology
- German Studies
- History
- Human Services
- Latin American Area Studies
- Management
- Mathematics
- Music
- Philosophy
- Physics
- Political Science
- Psychology
- Social Science
- Sociology
- Spanish
- Sport Management
- Statistics
- Studio Art
- Theatre Arts

## Individualized Majors

### ("Areas of Concentration")

Morris students may also work closely with faculty to design their own individualized program or "area of concentration." Examples of previously approved areas of concentration include: actuarial science, American studies, animal behavior, art therapy, biostatistics, digital media studies, forensic science-biochemistry emphasis, forensic science-biology emphasis, forensic science-chemistry emphasis, international studies, and peace studies. To declare an individualized major, students must consult with a faculty adviser and develop their area of concentration. Students must complete the Area of Concentration Approval Form and request approval by a faculty adviser and the dean. Area of Concentration Forms are available online at [www.morris.umn.edu/services/acad\\_affairs/aavarious.html](http://www.morris.umn.edu/services/acad_affairs/aavarious.html). Changes to an approved area of concentration must go through the original approval process.

## Preparation for Professional Degrees

Morris also offers students the opportunity to pursue coursework that prepares them for admission to a variety of professional schools offered at universities across the country. (See Preparation for Professional Degrees in Other Colleges on page 55.) This coursework is determined in consultation with faculty advisers and is intended to complement the general education and major requirements needed for the degree at Morris.

## Honors Program

The Morris Honors Program offers a distinct, academically challenging, intellectual experience for motivated and high-achieving students. The Honors Program amplifies and complements the liberal arts mission of Morris by means of an interdisciplinary curriculum. Successful completion of the Honors Program provides students a Morris degree “with honors” as a recognition of their achievements and willingness to explore ideas beyond disciplinary boundaries. Graduation “with honors” is noted both on the transcript and on the diploma.

All honors students must enroll in IS 2001H—Traditions in Human Thought, a course that explores significant works from history, literature, philosophy, and science from an interdisciplinary perspective. Students may then choose from several elective offerings each semester that examine a particular topic from an interdisciplinary perspective. The courses are often team-taught by faculty from different Morris academic divisions. Students can also opt to pursue an Honors Co-curricular Independent Study (IS 3991H), an interdisciplinary project related to a co-curricular opportunity such as an internship, study abroad, etc. In addition, honors students must complete an honors capstone project: a substantial scholarly or creative interdisciplinary work designed by each student working cooperatively with a project adviser. Upon completion, the project is defended before a panel of faculty from different disciplines. In addition to these requirements, students in the Honors Program often volunteer for service-learning initiatives; attend public presentations, music, and theatrical performances; enjoy occasional field trips and outings; and mentor other students in the program.

All Morris students are eligible to participate in the Honors Program. Students normally apply to the program in the spring semester of their freshman year and begin coursework in their sophomore year. While everyone may apply, academic success in the fall semester, faculty recommendations, and a short essay may be used to limit the number to students with the proven motivation and likely ability to succeed in the program. A more detailed description of the Honors Program courses and requirements appears in the Programs and Course Descriptions section of this catalog.

## Facilities

The Morris campus is situated on rolling prairie along the Pomme de Terre River in the rural community of Morris. The attractive, tree-shaded campus, with its 35 buildings, is located around a pedestrian mall. The campus recently completed a state-of-the-art Welcome Center and contemporary residence hall—the Green Prairie Community. The major buildings, including the Science and Math Complex, the Rodney A. Briggs Library, the Humanities Fine Arts Center, the Physical Education Center, the Student Center, the Dining Hall, and three of the residence halls, are

modern in design and of relatively recent origin. They are blended with several older buildings of a gracious early 20th-century style, which recalls the campus’s early history, first as an American Indian boarding school, then as the University’s West Central School of Agriculture. All major instructional areas as well as most administrative space are accessible to persons with mobility limitations.

The **Humanities Fine Arts Center** received the prestigious First Design Award from Progressive Architecture magazine. It houses two theatres, a recital hall, a gallery, art studios, music rehearsal rooms, two television studios, and a variety of special purpose classrooms.

The **Rodney A. Briggs Library** provides resources 24/7 through the library’s website and online collections. The library is open 99 hours a week allowing students to access its print and media collections, research assistance, interlibrary loan service, and offering individual and group study space. The UMM Archives and the West Central Minnesota Historical Research Center are among the special collections available in the library. The library also houses the Office of Academic Success and Writing Center.

Morris has laboratory facilities for psychology and a simulation laboratory for political science students, as well as many laboratories for the natural sciences. Students also have access to several campus computer labs which provide services for instruction and research.

The **Student Center** serves as the community center for Morris students, faculty, staff, alumni, and guests with Highbies Coffee Shop, the Information Center, Turtle Mountain Café, Edson Auditorium, Oyate Hall, and Louie’s Lower Level student lounge space. The Student Center is home to offices—Student Activities, Conferences and Events, the Academic Center for Enrichment, student organizations—as well as the student radio station, and a computer lab and study lounge.

In 2000, a new science building and renovated existing science facilities gave the campus a state-of-the-art science complex. The 60,000-square-foot science building houses laboratories and computer classrooms to support the science and mathematics curriculum.

The 40,000-square-foot **Regional Fitness Center (RFC)**, a campus/community partnership, houses a walking/jogging track, low impact cardiovascular area, warm water pool and water slide, and multipurpose court areas. The nearby Physical Education Center houses three basketball courts in its main gymnasium. Seating capacity for games is 4,000. It also features a large multipurpose gymnasium, an exercise therapy and weight room, handball courts, and classrooms. It has a spacious natatorium consisting of an official Olympic-size, eight-lane swimming pool, and a separate diving tank.

UMM’s Welcome Center houses Admissions, External Relations, Community Engagement, and the Center for Small Towns. Created through the renovation of the Community Services building in 2010, the project achieved

LEED (Leadership in Energy Efficient Design) Goldcertification.

UMM's newest residence hall, the Green Prairie Community, opened in 2013. This state-of-the-art residential facility will further enhance the campus's energy and sustainability initiatives with both first-class residential space and a high quality learning environment suitable for student research and demonstration programs.

Morris has been in the forefront in adopting renewable energy technologies and achieving energy efficiency. Two wind turbines can generate all of the campus electrical

needs on windy days and meet about 60% of the campus annual electrical load on average. The campus biomass heating and cooling plant displaces fossil fuel with locally obtained biomass, like corn cobs, that is grown locally to heat and cool the campus. A solar thermal array heats the RFC's recreational pool, keeping about 15 tons of CO<sub>2</sub> out of the atmosphere annually. An additional array provides electricity for the Green Prairie Community.



# Admissions

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# Admissions

The Office of Admissions is the primary source of information about the University for prospective students. It provides college catalogs, brochures, and other printed materials regarding all phases of the institution and its policies and programs. In addition, the office arranges personal visits with admissions counselors or with University faculty to discuss programs in which a student is interested. For more information about admissions or to arrange a campus visit, call 1-888-866-3382. Persons with disabilities seeking accommodation during the admissions process may contact the Disability Resource Center coordinator in Room 362, Rodney A. Briggs Library, 320-589-6178.

## Admission Requirements

Persons seeking admission to the University of Minnesota, Morris on the basis of a high school diploma or through transfer from another college should check the admission requirements detailed on the following pages.

Applicants may obtain an application form from their high school principal or counselor, or may submit an application online at [admissions.morris.umn.edu](http://admissions.morris.umn.edu) with a \$25 nonrefundable fee. Each application submitted in hard copy must be accompanied by a nonrefundable fee of \$35, payable by check or money order to the University of Minnesota, Morris. (Please do not send cash through the mail.)

## Freshman Admission

Because of the nature of the curriculum, the standards of academic performance required, and the need to maintain the small size of the college, a selective admission policy is necessary. Morris currently enrolls approximately 420 first-year students in its fall semester class, most of whom graduate in the top 25 percent of their high school class. The current student body represents 33 states and 21 foreign countries; large and small, public and private high schools; and a variety of social, economic, and cultural backgrounds. Success with high school preparatory courses, class rank, ACT or SAT test scores, educational objectives, extracurricular activities, and other relevant information are all taken into consideration in the admission decision. If a student did not complete high school, a GED (General Equivalency Diploma) may be accepted in lieu of high school transcripts.

Applications for first-year applicants are reviewed on a rolling basis beginning September 15. Priority deadline for admission and competitive scholarships is December 15. Applications submitted by the priority deadline will be considered for admission, Morris Competitive Academic Scholarships, and Achievement Scholarship packages. The final deadline to apply is March 15. Applications received after December 15 will be automatically considered for admission and Achievement Scholarship packages.

All admitted applicants are required to confirm their acceptance with a \$150 nonrefundable confirmation fee due on or before the national candidate's reply date of May 1. The confirmation fee reserves space in the class, and the date of receipt of the student's confirmation fee gives priority consideration for housing assignments and course registration. Students are encouraged to send their confirmation fees as soon as possible.

## High School Preparation

Successful applicants to Morris must complete the following courses in high school:

1. **Four years of English**, with emphasis on writing, including instruction in reading and speaking skills, and literary understanding and appreciation.
2. **Four years of mathematics required**, including two years of algebra, one of which must be intermediate or advanced algebra, and one year of geometry. Students who plan to enter the natural sciences, health sciences, or quantitative social sciences should have additional preparation beyond intermediate algebra. See the policy link for current information, [policy.umn.edu/Policies/Education/Education/HIGHSCHOOLPREP.html](http://policy.umn.edu/Policies/Education/Education/HIGHSCHOOLPREP.html).
3. **Three years of science**, including one year each of biological and physical science.
4. **Three years of social studies**, including U.S. history.
5. **Two years of a single foreign language**. American Indian languages and American Sign Language may be used to fulfill this requirement.

Applicants who are missing a specific requirement may not necessarily be denied admission if they are otherwise admissible.

Students are strongly urged to include visual arts, performing arts, and computer skills courses in their college preparation program.

## Standardized Test Scores

Freshmen must submit scores from the ACT or the College Board's SAT Test. As a basis for admission, applicants' ACT/SAT scores should clearly indicate strength in their aptitude and preparation. Applicants should complete the ACT/SAT assessment during one of the national testing periods (preferably spring or summer of the applicant's junior year of high school or fall of their senior year of high school) and have their assessment report sent to Morris (ACT code 2155, SAT code 6890). In certain instances in which the ACT/SAT is not readily available, scores from the on-campus residual ACT can be used for Morris admission purposes only. Please contact the Office of Admissions to schedule a residual ACT exam.



## Freshmen With PSEO Credits

Students who have acquired college credits from regionally accredited post secondary institutions through Minnesota's Post Secondary Enrollment Options Act (PSEO) must provide the Morris Office of Admissions with an official transcript of courses taken from a college or university during their junior and/or senior year in high school.

## International Students

Citizens of other countries are encouraged to apply for admission to the University of Minnesota, Morris. They are evaluated on an individual basis, with consideration given to the academic record of each student in relation to the educational system of her or his native country. Applicants must show evidence of exceptional academic achievement and probability of success at Morris. Applicants should submit official transcripts from every post secondary institution previously attended. The Test of English as a Foreign Language (TOEFL) is required of all students applying from outside the United States unless their native language is English. A minimum score of 550 paper, 213 computer, or 79 Internet-based is expected of Morris applicants. The TOEFL is offered worldwide at selected locations. Please see [www.toefl.org](http://www.toefl.org) for more information.

## Transfer Student Admission

Students who have completed coursework at another accredited institution of higher education may transfer to the University of Minnesota, Morris. Based on the types of courses completed and performance in that coursework, students can receive advanced standing and credit toward the bachelor of arts requirements at Morris. Because of this extra stage in the admission process, students are asked to contact the admissions office immediately to start the conversations about the admissions process and the transfer of course credit.

As a preliminary guide to prospective transfer students, visit "Transferology" at [transferology.com/](http://transferology.com/) where students can view course equivalencies, see requirements for Morris majors, enter and store their transfer courses, and produce a report showing their courses satisfying Morris degree requirements.

## Preparing for Transfer to Morris

Students currently enrolled in another college or university should discuss transfer plans with a Morris admissions counselor, at 320-589-6035 or 1-888-866-3382 and visit the Office of Admissions transfer website at [admissions.morris.umn.edu/transfer/](http://admissions.morris.umn.edu/transfer/);

- call or visit Morris. Students should request the following materials:
  - information on financial aid (how to apply and by what date);
  - information on Morris admission criteria and materials required for admission (e.g., transcripts, test scores).

Note that elementary education and secondary education programs require special admission in addition to general Morris admission. In these instances, admission to Morris does not guarantee admission to the program. These special admission requirements are listed under the respective majors in the Academic Division Structure and Program and Course Descriptions sections in this catalog;

- make an appointment—after reviewing the above materials—to talk with the Office of Admissions transfer coordinator. Be sure to ask about course transfer and degree requirements.

For more information, visit the Office of the Registrar transfer website at [www.morris.umn.edu/registrar/transfer/](http://www.morris.umn.edu/registrar/transfer/).

## Applying for Transfer Admission to Morris

Applications submitted to Morris are reviewed on a rolling basis beginning September 15. The deadline for spring admission is November 1; the deadline for fall admission is May 1. Applicants may obtain a paper application from Morris or may apply online at [admissions.morris.umn.edu](http://admissions.morris.umn.edu). Each hard copy application submitted must be accompanied by a nonrefundable fee of \$35 payable by check or money order to the University of Minnesota, Morris (please do not send cash through the mail). Online applicants must submit a nonrefundable fee of \$25. A \$150 confirmation fee is due by December 1 for spring enrollment, May 1 for fall enrollment, or within 30 days after notification of admission, whichever is later.

Applicants must submit the following:

- a completed Application for Admission;
- official transcripts from every previous institution attended, whether courses were completed satisfactorily or not.

Students with less than one year of college must include high school transcripts and ACT/SAT scores. In general, transfer students with credits from an accredited college or university who have maintained at least a 2.50 cumulative GPA in all credits attempted are considered for admission.

After a student has applied for admission, her or his transcript is evaluated. An Academic Progress Audit System (APAS) report showing how the courses meet specific degree requirements will be made available to the student. If the student has questions about the evaluation, the student may contact the transfer evaluation coordinator in the Office of the Registrar.

## Understanding How Transfer of Credit Works

- Credits and grades are assigned by the previous (source) college. Morris, as the target college, decides which credits meet Morris degree requirements and transfer.
- Morris accepts transfer coursework:
  - from institutions that are regionally accredited;
  - from institutions that provide courses that are intended for transfer to baccalaureate programs;

- that is comparable in nature, content, and level to courses offered by Morris;
- that is applicable to the bachelor of arts degree: “like” transfers to “like”;
- with the grade of D or above, subject to the restrictions of Morris degree requirements.
- In addition to coursework from the traditional liberal arts disciplines, Morris may accept courses in teaching licensure that compare to Morris education courses.
- Morris does not accept transfer coursework from proprietary technical colleges, business colleges, and similar postsecondary schools that are not regionally accredited. However, credit for knowledge acquired in liberal arts coursework from these programs may be obtained by special examination.
- Courses that are technical or applied do not transfer to Morris.
- The University of Minnesota transcript lists the name of each source college with the number of credits accepted from each. Grades earned in transfer courses do not count toward the GPA on the University of Minnesota transcript or toward GPA-based degree honors.
- Transfer course titles appear on Academic Progress Audit System (APAS) reports. Transfer courses may qualify to fulfill general education requirements, major/minor requirements, and teaching licensure requirements.
- In lieu of regional accreditation, evidence must be provided that instruction is collegiate level and appropriate for Morris’s liberal arts mission before credit is awarded.
- Religious studies from accredited public colleges go through the normal transfer review. Religious studies from accredited private colleges go through a special review committee.
- Transfer credits become applicable to a University of Minnesota degree program or certificate program only after the student has been admitted as a degree-seeking student.

### Rights as a Transfer Student

A transfer student is entitled to:

- a fair credit review and an explanation of why credits were or were not accepted; and
- a formal appeals process. Appeals steps are listed below.
  1. The transfer student provides supplemental information to the Office of the Registrar—a syllabus, course description, or reading list;
  2. The Office of the Registrar may ask the destination department(s) to review supplemental materials;
  3. The student receives an updated APAS showing the outcome of the appeal; and
  4. The student, if dissatisfied with the outcome, can make a further appeal to the Scholastic Committee.

### Understanding Degree Requirements for Transfer Students

- Not everything that transfers will help the student graduate. Morris’s bachelor of arts degree requires coursework in several categories: general education, major/minor courses with their prerequisites, and electives. The key question in determining whether transfer courses will fulfill Morris requirements is, “Will the student’s credits fulfill requirements of the degree or program chosen?”
- The Minnesota Transfer Curriculum (MNTC) is an agreement for transferring general education requirements as a package from colleges within Minnesota State Colleges and Universities (MNSCU). MNTC will be honored for students who have fully completed that curriculum before transfer to Morris. The remaining Morris degree requirements are:
  - foreign language study, one year at the college level;
  - a total of 60 general education credits outside the discipline of the major;
  - a major or area of concentration;
  - 30 credits in residence; 15 of the last 30 credits must be from Morris;
  - 2.00 cumulative University of Minnesota GPA;
  - 120 credits (minimum) for the degree.
- Application of courses to Morris general education requirements for students who are transferring to Morris from within MNSCU but who have not completed the MNTC will be done on a course-by-course basis.
- If the student changes the career goal or major, it might not be possible to complete all degree requirements within the 120 minimum total credits required for graduation.

### Adding Programs After Earning a Degree from Another Institution

Students transferring to Morris after earning a degree from another college should note the following information.

#### Teaching licensure

- Students must be admitted to both Morris and the education program.
- Students may earn a bachelor of arts degree that would be recorded on the University of Minnesota official academic transcript.
- Students may elect a “teaching licensure only” option without a degree notation on the official transcript.

#### Completing or adding a major

- Students must meet all bachelor of arts degree requirements at Morris; a major is one component of the degree.
- Catalogs are in effect at Morris for nine years from the first semester covered by the catalog.

- Students may use catalog requirements in effect at the time they enter Morris and later, but not catalogs in effect before their entrance date.
- The major, one of the components of the degree, is recorded with the Morris degree information on the official transcript.

### Completing or adding a minor

- Students meet all bachelor of arts degree requirements at Morris; a minor is an optional component of the degree.
- All of the items listed under Adding a Major at Morris (see the previous section) also apply to adding a Morris minor to a degree earned at another college or university.

### Transfer Within the University of Minnesota

A student who wishes to change from one college, school, or campus of the University of Minnesota to Morris must meet the Morris requirements for admission.

- Transfer applicants from other colleges within the University to Morris who have maintained at least a 2.50 GPA are considered for admission.
- Students with less than a year of college must submit a final high school transcript, meet the admission requirements for freshmen, and have at least a 2.50 GPA in their college coursework.
- Application for transfer within the University of Minnesota should be made at the Office of the Registrar on the campus where the student is currently enrolled or was last registered. The Application for Undergraduate Change of College, available at [admissions.morris.umn.edu/transfer](http://admissions.morris.umn.edu/transfer), serves as the Application for Admission.
- Students should apply as early as possible before their expected date of transfer.
- To receive a bachelor of arts degree, transfer students must also meet all Morris degree requirements.

### Deferred Admission

Students choosing to delay their matriculation into Morris after being admitted may defer their admission. To seek deferred admission, students first complete all admissions procedures. Once admitted, they request deferred status; after deferment has been granted, the \$150 nonrefundable confirmation fee will reserve space for up to one year.

### Nonresidents and Reciprocity

Under reciprocity agreements, residents of North Dakota, South Dakota, Wisconsin, and Manitoba who attend Morris may pay a specially designated tuition rate. To obtain current figures and necessary forms, contact the student's home state higher education services office, the Morris Office of Admissions, or the appropriate office listed below:

**North Dakota residents**—Reciprocity Program, North Dakota Board of Higher Education, 10th Floor, State Capitol Building, Bismarck, ND 58501

**South Dakota residents**—Reciprocity Program, South Dakota Board of Regents, Box 41, Brookings, SD 57007

**Wisconsin residents**—Reciprocity Program, Wisconsin Higher Educational Aids Board, 137 East Wilson Street, Madison, WI 53707

**Manitoba residents**—Office of Admissions, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

As part of its efforts to make a high quality Morris education available to students from across the country, the University of Minnesota, Morris does not charge nonresident tuition.

### Multi-Institutional Student

A consortium agreement among the University of Minnesota campuses allows students planning to earn their degree at their home campus to enroll in courses offered by another University of Minnesota campus. This arrangement is available for only one term per academic year. Application forms and critical information about attending another campus are available through One Stop Student Services. Applications for financial aid and enrollment are processed through the Morris or home campus. Students are charged separate tuition rates and fees for classes taken on each campus.

### Special Admissions Status

#### Returning Morris Students

Students who will not maintain continuous registration for any reason should consult with their adviser about whether to request a leave of absence. Morris students who fail to register for a semester (excluding summer), and who have not been granted a leave of absence or whose leave of absence has expired will be placed on "inactive" status. Former Morris students are considered for readmission on the basis of their past performance as space is available. Former Morris students who transferred to another college must submit official transcripts from each institution with their application for readmission to the Office of Admissions. Once readmitted, the Office of the Registrar provides the information needed to register for classes. Forms and procedures related to this policy can be found at [www.policy.umn.edu/Policies/Education/Education/READMISSIONLOA.html](http://www.policy.umn.edu/Policies/Education/Education/READMISSIONLOA.html).

#### Taking Courses at Morris for Those Not Seeking a Degree

Morris offers opportunities to non-degree seeking students who wish to prepare for college, explore an area of study, or pursue a personal interest. Because they are not pursuing a Morris degree, non-degree seeking students are not required to be officially admitted to Morris. Courses completed and corresponding grades are posted to an official Morris transcript. Should a non-degree seeking

student decide to pursue a degree in the future, credits earned may count towards a degree program.

### **Non-Degree Seeking Students Fall into Several Groups:**

*Post Secondary Enrollment Option (PSEO) Students*—High school students who wish to take online courses through PSEO can learn more through Morris Online Learning at [onlinelearning.morris.umn.edu/pseo/](http://onlinelearning.morris.umn.edu/pseo/). High school students who wish to be Morris residential students through PSEO can learn more through the Office of Admissions at [admissions.morris.umn.edu/pseo/](http://admissions.morris.umn.edu/pseo/).

*Students from Other Colleges and Universities*—Morris summer sessions ([www.morris.umn.edu/academics/summerterm/](http://www.morris.umn.edu/academics/summerterm/)), online courses ([onlinelearning.morris.umn.edu/](http://onlinelearning.morris.umn.edu/)), and study abroad programs ([www.morris.umn.edu/ACE/studyabroad/](http://www.morris.umn.edu/ACE/studyabroad/)) may provide excellent academic opportunities for students from other colleges and universities.

*Morris Faculty and Staff*—Eligible faculty, academic professional and administrative, civil service, and union-

represented staff employees are encouraged to take classes to advance their education at Morris with the support of the Regents Scholarship Program. Learn more at [www.morris.umn.edu/hr/forms/](http://www.morris.umn.edu/hr/forms/).

*The "Curious Citizen"*—Adults from near and far may take courses of special interest through Morris online learning at [onlinelearning.morris.umn.edu/](http://onlinelearning.morris.umn.edu/) or classroom courses at [onestop2.umn.edu/courseinfo/classschedule\\_selectsubject.jsp?institution=UMNMO](http://onestop2.umn.edu/courseinfo/classschedule_selectsubject.jsp?institution=UMNMO).

*Minnesota Senior Citizen Education Program*—The Senior Citizen Education Program is part of a Minnesota state statute that provides senior citizens higher education opportunities. Those who meet the residency and age requirements may audit courses for no credit without any tuition charge or take courses for credit at \$10 per credit tuition charge. Learn more at [www.morris.umn.edu/registrar/senior/](http://www.morris.umn.edu/registrar/senior/).

# Cost of Attendance, Fees, Financial Aid, and Scholarships

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# Cost of Attendance, Fees, Financial Aid, and Scholarships

One Stop Student Services help students manage the business of being a student. Current information can be found at [onestop.morris.umn.edu/](http://onestop.morris.umn.edu/).

Detailed information on costs, tuition, and fees can be found online at [onestop.morris.umn.edu/finances/tuitionfees/](http://onestop.morris.umn.edu/finances/tuitionfees/).

## Cost of Attendance

The Cost of Attendance (COA) budget components are determined by federal regulation and include tuition and required fees, room and board, books and supplies, transportation, personal and miscellaneous expenses, and loan fees.

| Cost of Attendance                      | 2015-16         |
|---|-----------------|
| Tuition (13+ credits) and required fees | \$12,584        |
| Room and board                          | \$7,626         |
| Books and supplies                      | \$900           |
| Transportation                          | \$500           |
| Personal & miscellaneous                | \$1,500         |
| Loan fees                               | \$90            |
| <b>Total Cost</b>                       | <b>\$23,200</b> |

The approximate yearly COA for a Morris student living on campus in 2015-16 is \$21,110. This amount includes tuition and required fees, room and board, and an estimate for textbooks and supplies. Not included are indirect costs such as transportation, personal & miscellaneous expenses, and loan fees which are best estimated by the individual student.

Morris has a 13+ credit tuition band. Students taking 13+ credits are billed the 13 credit rate; students taking fewer than 13 credits per semester are billed on a per credit basis. This is a great savings, as many students take an average of 15 credits per semester in order to graduate in four years.

## Student Services Fees

Student Services Fees are mandatory assessments on each campus and provide non-instructional activities and services that make significant contributions to student development.

**Activities Fee**—Charged each semester to all students registered for 6 or more credits. Those registered for fewer than 6 credits may elect to pay the fee to participate in the activities, events, and services it funds, which include cultural and social events sponsored by student organizations and other Morris units. A Summer Activity Fee is charged for students taking classes during summer session.

**Health and Wellness Services Fee**—Charged each semester to all students registered for 6 or more credits. Those registered for fewer than 6 credits may elect to pay this fee in order to have access to the Health Service and Wellness Services, which provide limited outpatient care. (Students

must have adequate health insurance coverage to supplement this care.)

**Regional Fitness Center (RFC) Fee**—Charged each semester to all students registered for 6 or more credits to help fund student memberships and programs at the Regional Fitness Center.

**Student Center Fee**—Charged each semester to all students to pay for services and operating expenses, facility repair and improvement, and a reserve for future expansion or replacement of the facility.

**Intercollegiate Athletic Fee**—Charged each semester to all students registered for 6 or more credits.

## Morris Campus Fee

The Morris Campus Fee is charged to all students to help fund technological enhancements and services on campus that are of direct benefit to students and their educational programs. Those registered for fewer than 6 credits pay a reduced rate. A Summer Campus Fee is charged to students taking classes during summer session.

## Special Course Fees

Fees charged in addition to tuition.

**Music Lesson Fee**—Charged to students for individual instruction provided in private music lessons. Note: Applied music instructors are not expected to make up sessions for unexcused student absences from scheduled lessons.

**Online Learning Fee**—Charged on a per credit basis to students enrolled in online/distance learning courses.

**Studio Art Materials Fee**—Materials fee charged for supplies that are used by students who are registered in many of the Studio Art (ArtS) courses. The amount of the fee varies by the course being taken.

**STELLAR Fee**—Charged to students participating in the Summer Transition for English Language and Liberal Arts Readiness (STELLAR). Designed to provide incoming Morris international students with a holistic approach to living and attending college in an English-speaking country (Lang 1064).

## Other Fees

These are fees that have not been included in Student Services Fees, UMM Campus Fee, or Special Course Fees. The list includes fees that are mandatory, supplemental, or optional.

**Admissions Freshman Confirmation Fee**—Charged to admitted students to show their intent to enroll at UMM.

**Application Fee**—A nonrefundable fee submitted with Application for Admission to UMM. The amount of fee is determined based on submission method—paper or online.

**Certification Fax Fee**—Charged for faxing certifications.

**Credit by Examination Fee**—Charged per credit to students to take special subject exams to demonstrate knowledge acquired outside specific courses offered at UMM. Special exams are given at the discretion of the discipline.

**English Language Teaching Assistant Program (ELTAP) and Global Student Teaching (GST) Application Fee**—Application fee to place students in international settings for each of the programs.

**English Language Teaching Assistant Program (ELTAP) and Global Student Teaching (GST) Program Fee**—Charged to students participating in the ELTAP or GST programs. Program fees cover the cost of placement and supervision.

**Health Insurance Fee**—All Morris students who are registered for 6 credits or more are required to provide proof of health insurance coverage. Students who are unable to provide such proof are required to carry insurance through a group plan provided by an outside agency contracted through Morris Health Services. International students are required to purchase the Morris group insurance or they may seek a waiver based on proof of equivalent coverage.

**Housing Contract Cancellation Fee**—Charged only to students who signed a housing contract and subsequently requested cancellation of their on-campus housing (prior to the official move-in date) for the purpose of living off campus.

**Installment Fee**—Students who pay the minimum amount due on their student bill are automatically enrolled in the Installment Plan and charged a fee per semester for rebilling.

**International Student Academic Service Fee**—Charged to all international students to support enhanced academic services, with the focus of ensuring retention, timely graduation and student satisfaction with their Morris experience.

**International Student Fee**—Charged to all international students for added support costs such as SEVIS system, record keeping, mailing of official documents, providing orientation, etc.

**Late Payment Fee**—Students who fail to pay at least one-third of the amount due on their first student bill of the term are assessed a late fee. Accounts not paid in full by the due dates on all subsequent bills are assessed an additional late fee each time a due date passes.

**Late Registration Fee**—Charged to students who register after the first day of the term. Students are required to register before the first day of the term.

**Locker Fee**—Charged for the use of a locker and towel service in the Physical Education Center. Lockers are also available in the lower level of the Student Center and are accessible in two ways. Unlimited use lockers may be rented from the Information Center.

**Lost Key Fee**—Charged to students for lost keys.

**Minnesota Education Job Fair Fee**—Charged to students participating in the MN Education Job Fair (either pre-registration or on-site).

**National Student Exchange Fee**—Charged to students participating in the program sponsored through the National Student Exchange (NSE).

**Non-Sufficient Funds (NSF) Check Fee**—Charged on all returned checks.

**Parking Permit Fee**—Charged per academic year for a permit to park in campus lots.

**Storage Container Fee**—Charged per academic year for storing items with limited access.

**Student Teaching Fee**—Charged to students participating in the Education Student Teaching Program to cover a portion of the costs associated with placement, supervision and assessments of student teaching.

**Testing Service Fees**—Students are not charged any testing fees for placement exams (foreign language and math) at UMM. Exams for national testing companies or agencies, (i.e., for admissions, licensing, or College Level Examination Program “CLEP”) are administered by the UMM Test Center and students register with and pay fees to the respective testing company. UMM’s Test Center is located in the Student Counseling Office.

**Transcript Fees**—If a student has no holds on his/her record, official transcripts are issued for a fee. Transcripts are usually processed within one to two working days. Additional information is available on how to request a transcript. Unofficial transcripts are available online at no cost to current students at the One Stop Student Services website.

**Transfer Confirmation Fee**—Charged to incoming transfer students for registration costs.

**U-Card Replacement Fee**—Charged to replace a U-Card, the University’s identification card. This fee applies to registered Morris students who have lost or damaged their card.

## Deposits

**Housing**—A first-time application fee and a nonrefundable deposit must be paid by all newly admitted Morris students seeking on-campus housing.

**Key Return Deposit**—A refundable deposit is charged for each key issued for an outside door of, or a room in, a campus building to ensure its return. A refundable deposit is charged for Science Building keys.

## Pay the University

Students are responsible for all charges to their student account by the due date shown on their billing statement. It is the student’s obligation to pay bills on time in order to avoid late fees.

For more information about billing and payment, visit [onestop.morris.umn.edu/pay](http://onestop.morris.umn.edu/pay).

### Installment Option

Students may choose to opt in to the installment plan for fall and spring semesters. An installment/re-billing charge per semester will be added to the balance on the student's next bill. Non-degree students are not eligible for the installment payment plan. The installment plan is not available for the summer term.

### Late Payment Fees

Any time a student pays less than the amount due by the due date, a late payment fee, in addition to the per semester installment/re-billing fee, will be assessed to the student's account and a hold will be placed on the student's record.

All Morris fees, deposits, and refund policies are subject to change without notice.

For more information about billing and payment, visit [onestop.morris.umn.edu/pay](http://onestop.morris.umn.edu/pay).

## Financial Aid

For more detailed information on financial aid, visit [onestop.morris.umn.edu](http://onestop.morris.umn.edu).

### Financial Aid Application

The Free Application for Federal Student Aid (FAFSA) is the only application needed to receive federal, state, or institutional financial aid at Morris. Students should complete the FAFSA as soon after January 1 as possible to be considered for all available funding.

### Criteria for Awarding Federal, State, and Institutional Financial Aid Funds

Morris uses the Expected Family Contribution (EFC) to determine financial need and the eligibility for financial aid based on federal, state, and institutional formulas, criteria, policy, regulations, and the availability of funds under the direction of the University of Minnesota administration. The EFC and financial need are determined by federal methodology based on the information provided on the Free Application for Federal Student Aid (FAFSA). The EFC determines what the student/parent(s) can reasonably be expected to pay toward their educational costs.

### Unusual Circumstances

Students should contact the One Stop Student Services when/if a family's financial situation changes after submitting the Free Application for Federal Student Aid (FAFSA), or a student/family feels that the results from the FAFSA don't fully represent the household financial situation.

Death, separation, divorce, unemployment, loss of employment, military service, nursing home expenses, unusual medical care expenses, tuition costs for a dependent student's parent attending college, tuition expenses for children attending a private elementary or high school, or loss of nontaxable income or benefits are all examples of unusual circumstances that may affect a student's financial aid eligibility.

A One Stop counselor can help determine whether unusual circumstance adjustments are eligible to be made to the processed FAFSA; adjustments require additional documentation.

### Satisfactory Academic Progress (SAP)

To maintain eligibility for federal, state, and institutional aid, students must meet University of Minnesota, Morris academic progress standards for financial aid recipients. For more information, visit [onestop.morris.umn.edu/aid/sap](http://onestop.morris.umn.edu/aid/sap).

## Scholarships and Waivers

For detailed information regarding scholarships, visit [admissions.morris.umn.edu/scholarships](http://admissions.morris.umn.edu/scholarships).

### Automatic Consideration

Admitted freshmen and transfer students will be automatically considered for these scholarships:

**Achievement Scholarships**—Based on information provided in the Application for Admission, admitted freshmen will be considered for Achievement Scholarship Packages, which range from \$4,000 to \$18,000 over four years (\$1,000-\$4,500 annually). Students will be notified of their award with their letter of acceptance.

**National Merit Scholarships**—National Merit Finalists who choose Morris as their first-choice college will receive a full tuition scholarship, renewable for up to four years. Semi-Finalists and Commended Scholars are eligible for up to \$4,000 disbursed evenly over four years, renewable for up to four years. Students must provide the Office of Admissions with documentation of their Commended or Semi-Finalist status to receive this award.

**Transfer Scholarships**—Students transferring to Morris from another college outside of the University of Minnesota system with 30 transferable credits earned after graduating high school and a 3.75 transfer GPA (calculated based on transferable credits) qualify for a \$2,000 nonrenewable scholarship. Those with at least a 3.5 transfer GPA qualify for a \$1,000 nonrenewable scholarship. These scholarships are distributed over the first year at Morris. Transfer students will receive notification of their award pending an official evaluation of their transfer credits, typically 2-3 weeks after admission.

## Competitive Academic Scholarships

### Application Due December 15

Incoming first-year students are invited to compete for Morris's top two scholarship packages. To be eligible, students must submit their Application for Admission and required materials by December 15. Recipients will be selected during a competitive interview process held at Morris in early February.

**Prairie Scholars**—Prairie Scholars receive a scholarship package equivalent to full tuition, renewable for up to four years by maintaining a 2.5 GPA.



**Morris Scholars**—Morris Scholars receive a \$24,000 scholarship package, disbursed evenly over four years, plus a one-time \$2,500 scholarship stipend. The stipend may be used during the second, third, or fourth year at Morris to engage in an eligible scholarship experience (e.g., to study abroad, to participate in a research or artistic project, or to travel to academic conferences).

**Clyde E. Johnson Music Scholarship**—Clyde E. Johnson Music Scholarships honor the memory of the late Clyde E. Johnson, professor emeritus of music, who served Morris from 1961 until 1999. The scholarships are awarded to talented Morris music ensemble members to cover the fees for weekly private, individual music lessons in the student's ensemble performance medium (instrumental or voice).

Morris will host auditions for students planning to participate in music ensembles. While on campus, students will audition with music faculty and awards will be given based on the music faculty's evaluation of a student's audition and a recommendation letter from a private instructor or ensemble director. This scholarship is awarded by the Music Discipline.

All renewable scholarships are awarded on a per semester basis for fall or spring terms only and require students to maintain a 2.5 cumulative GPA and be enrolled for at least 12 credits. The Prairie Scholars Award, Morris Scholars Award, and National Merit Finalists Award will replace any previous scholarship package award offers. National Merit scholarships cannot be combined with the Prairie or Morris Scholars Award.

Final scholarship packages may consist of academic scholarships, U Promise scholarships and donor-funded scholarship awards. A student's award may be adjusted if institutional and outside awards cause the award to go over the cost of attendance (COA).

## Other Institutional and Donor-Funded Scholarships

Through institutional programs and the generosity of donors, additional scholarships are awarded based on information provided in the Application for Admission and the Free Application for Federal Student Aid (FAFSA) and will be a part of the final scholarship package.

## Waivers

For more information about waivers, visit [onestop.morris.umn.edu/aid/scholarshipswaivers](http://onestop.morris.umn.edu/aid/scholarshipswaivers).

**American Indian Tuition Waiver**—In recognition of the Morris campus history as an Indian Boarding School in the 1800s, federal and state legislatures have mandated that American Indian students attending Morris are not required to pay tuition.

**Visually or Hearing Impaired Tuition Waiver/Assistance**—Minnesota resident students who are visually or hearing

impaired may be eligible for a tuition waiver or partial tuition assistance. To apply for either of these tuition assistance programs the student must complete the Tuition Waiver/Assistance for Blind or Deaf Students Application and provide the required documentation.

## Federal, State, and Institutional Programs

Students who have completed a Free Application for Federal Student Aid (FAFSA) and are admitted to Morris are considered for federal, state, and University funding. Awards are based on financial need (as determined by the FAFSA), any eligibility criteria specific to the programs, and availability of funds.

### Federal Programs

**Federal Pell Grant**—The Federal Pell Grant is a federally funded grant for students who are pursuing their first undergraduate degree. The results of the Free Application for Federal Students Aid (FAFSA) will determine Federal Pell Grant eligibility. Students may receive a Pell Grant for three consecutive full-time semesters during the course of a single academic year.

**Federal Supplemental Educational Opportunity Grant (FSEOG)**—The Federal Supplemental Educational Opportunity Grant is a federally funded program for students who are pursuing their first undergraduate degree. The FSEOG amount is set by institutional awarding criteria, availability of federal funds from the U.S. Department of Education, and enrollment status.

**TEACH Grant Program**—The TEACH Grant is a federally funded gift program for full-time undergraduate students or students enrolled in a post-baccalaureate teacher credential program.

### State of Minnesota Programs

**Minnesota State Grant**—The Minnesota State Grant is a State of Minnesota funded gift program for students who are pursuing their first undergraduate degree, are Minnesota residents, and have not attended a post-secondary institution more than eight semesters at full-time status. Students may receive the Minnesota State Grant for three consecutive full-time semesters during the course of a single academic year. The award is based on availability of funds from the state of Minnesota and enrollment status.

**Minnesota Postsecondary Child Care Grant**—The Postsecondary Child Care Grant is a state of Minnesota funded gift program for students who are pursuing their first undergraduate degree, are Minnesota residents, have children 12 and under (14 and under if disabled), demonstrate financial need, and have not attended a post-secondary institution more than eight semesters at full-time status. The amount of assistance will depend on the family

size, annual income of the family, and the number of daycare hours necessary to cover education or work obligations.

**Minnesota Public Safety Officer's Survivor Grant**—The Public Safety Officer's Survivor Grant provides an educational benefit to dependent children under age 23 (age extended to 30 for those who served on active military duty for at least 181 consecutive days and were honorably discharged or released) and the spouses of public safety officers killed in the line of duty. Eligibility is determined by the Minnesota Department of Public Safety.

**Minnesota GI Bill**—The Minnesota GI Bill program was established in 2007 to provide postsecondary financial assistance to eligible Minnesota veterans who served on or after September 11, 2001. The Minnesota Office of Higher Education determines funding based on enrollment status.

## Institutional Programs

**University Grant**—The University Grant is awarded to students who are pursuing their first undergraduate degree. The actual award amount is set by institutional financial aid office criteria, availability of funds, and the student's enrollment status.

**University of Minnesota Promise Scholarship**—The University of Minnesota is committed to making a world-class education a great value for Minnesota families. The University of Minnesota Promise Scholarship (U Promise) has expanded the need-based programs to guarantee tuition aid for Minnesota resident undergraduates with a family income of up to \$100,000.

## Student Employment Program

There are three types of on-campus and off-campus student employment programs: Federal Work-Study (FWS), State Work-Study (SWS), and Institutional Student Employment (ISE). All student employment programs are handled in the same manner; however, eligibility requirements differ for each. Students must be enrolled in a degree-seeking program, pursuing their first undergraduate degree, and registered for a minimum of six credits per semester to maintain eligibility. Students must meet satisfactory academic progress requirements as well as financial aid eligibility guidelines for all student employment programs.

For more information about student employment visit: [onestop.morris.umn.edu/studentemployment](http://onestop.morris.umn.edu/studentemployment).

## Loan Programs

Student loans are sources of financial aid which must be repaid. Morris offers student loans as part of the financial aid award after reviewing eligibility for grants, scholarships, and work-study. Students must complete a Free Application for Federal Student Aid (FAFSA) to be eligible for federal loans.

For more detailed information visit [onestop.morris.umn.edu/aid/loans/](http://onestop.morris.umn.edu/aid/loans/).

## Federal Loan Programs

**Federal Perkins Loan**—The Federal Perkins Loan is a low-interest (5 percent), need-based loan program available to students who have exceptional financial need (the lowest EFC). There is no origination fee and interest does not accrue while a student is enrolled at least half time.

**Ford Federal Direct PLUS Loan**—Parents of a dependent student may apply for a Ford Federal Direct Parent Loan for Undergraduate Students (PLUS) Loan, a non-need-based program that allows a parent to borrow any amount up to the cost of attendance minus other financial aid awarded.

**Ford Federal Direct Subsidized Loan**—The Ford Federal Direct Subsidized Loan is a need-based loan program subsidized by federal funds that allows students to borrow money interest-free while in school at least half-time.

**Ford Federal Direct Unsubsidized Loan**—The Ford Federal Direct Unsubsidized Loan is a non-need-based loan program. Students are charged interest on this loan, but have the option to defer paying the interest while in school at least half time.

## Alternative Loan Programs

Morris recognizes that not all students and their families will be able to meet the financial burden of paying for an education, even with the assistance of traditional aid resources. Morris cannot recommend an alternative loan program since each student's needs are unique; students should evaluate each loan program to determine the best loan for their educational plans.

## American Indian Programs

For more information about American Indian programs, visit [onestop.morris.umn.edu/aid/scholarshipswaivers/](http://onestop.morris.umn.edu/aid/scholarshipswaivers/).

**American Indian Tuition Waiver**—In recognition of the Morris campus history as an Indian Boarding School in the 1800s, federal and state legislatures have mandated that American Indian students attending Morris are not required to pay tuition.

**Minnesota Indian Scholarship Program (MISP)**—Students who possess one-fourth or more Indian ancestry, are Minnesota residents, and have financial need should apply with the Minnesota Office of Higher Education. In order to qualify for this scholarship, students must be eligible to receive the Federal Pell or Minnesota State Grant. Recipients will receive an official notification of an award from the MISP.

**Tribal (Bureau of Indian Affairs-BIA) Scholarship**—Students who are enrolled with a state or federally recognized tribe are encouraged to apply for BIA funds by directly contacting their BIA Higher Education Program. The amount awarded is based on financial need and availability of funds through the BIA. Students are encouraged to apply with their tribe as early as possible. Recipients will receive an official notification of an award from the BIA.

**Ethel M. Curry American Indian Scholarship**—The Ethel M. Curry American Indian Scholarship is awarded to students

who are admitted to Morris as first-year freshmen. To be considered for the Ethel M. Curry American Indian Scholarship, students must complete the American Indian Tuition Waiver Application providing proof of American Indian heritage. Students will be given priority if they are one-fourth American Indian, enrolled in a federally-recognized tribe, and a Minnesota resident.

**Shakopee Mdewakanton Sioux Community Endowed Scholarship**—The Shakopee Mdewakanton Sioux Community (SMSC) Endowed Scholarship was established in 2008 through a generous gift from the Shakopee Mdewakanton Sioux Community. The SMSC scholarship program is designed to recruit and retain talented American Indian students with demonstrated financial need to Morris.

## Other Aid Programs

### Morris Academic Partnership (MAP)

Morris offers the Morris Academic Partnership (MAP) program in which faculty select academically talented, qualified third-year students to assist them in scholarly and creative projects. Selected MAP students undertake assignments intended to enhance their intellectual competence and increase their interest in graduate or professional study.

### Morris Student Administrative Fellows (MSAF)

Morris offers the Morris Student Administrative Fellows (MSAF) Program, in which academic and administrative staff select qualified students to serve as interns in offices and programs on campus. Selected students undertake assignments intended to enhance their intellectual competence, enrich their academic program, and increase their interest in graduate or professional study.

### Multicultural Mentorship Program (MMP)

The Multicultural Mentorship Program (MMP) is an opportunity for second-year students from underrepresented backgrounds or students who are working on a project that focuses on social justice issues or intercultural competence. Students selected for MMP work with Morris faculty and/or staff on a year-long project and/or

research endeavor. A yearly stipend of \$1,000 (paid in two installments at the end of each semester) is awarded to selected students for work supervised by their mentors. Further information about the Multicultural Mentorship Program may be obtained from the Multi-Ethnic Student Program Office, 110 Multi-Ethnic Resource Center.

## Undergraduate Research Opportunities Program (UROP)

The Undergraduate Research Opportunities Program (UROP) benefits students by allowing them to work with a faculty member on research, scholarly, or creative projects. Students develop detailed knowledge of research methods and have unique access to the faculty and facilities of the entire University of Minnesota system.

## Veterans Education Benefits

Morris is approved by the Minnesota State Approving Agency to participate in all Veterans Education Assistance Programs. These programs include Veterans Administration (VA) benefits for those who have served on active duty and their eligible dependents, as well as members of the Reserve and National Guard.

## Minnesota War Orphans Tuition Waiver

Students who have lost a parent through death as a result of a military service-related injury or disease may be eligible for a full-tuition waiver and assistance to help with other educational expenses at a Minnesota institution. Contact One Stop Student Services for coordinated veterans' services support at Morris.

## Vocational Rehabilitation

Students may be eligible for vocational rehabilitation if they have a physical or mental disability that makes it difficult for them to find or keep a job. If a student is determined eligible for services, Minnesota's vocational rehabilitation program considers the student's eligibility for other financial aid and may fund some direct costs such as tuition, student service fees, books, supplies, and equipment.



# Registration

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## Registration

Once a student is admitted to Morris, campus staff and faculty are available to assist the student in registering for courses and in getting oriented to the services, resources, and requirements of the University. Students are responsible for registering for classes each term. Students register themselves online. Students may also register in-person at the Office of the Registrar, 212 Behmler Hall. Registration and up-to-date registration publications and information are available on the Office of the Registrar website at [www.morris.umn.edu/registrar/registration/](http://www.morris.umn.edu/registrar/registration/).

### Advising for Registration

All students benefit from meeting with advisers every term prior to registration. Students required to see their adviser prior to registering have a hold placed on their record that the adviser releases. To plan for registration, students should review their APAS report to see what degree requirements need to be completed and which courses satisfy them. After registering, students should review APAS again to see how their courses are counting toward graduation.

### Maximum Credits for Registration

The maximum number of credits per semester for which a student is allowed to enroll without approval is 20. Scholastic Committee approval is required for a student to enroll for 20.5 or more credits in a semester. The registrar, on behalf of the Scholastic Committee, acts on petitions from students to register for more than 20 credits.

### New Student Registration

Registration sessions are held on campus during late spring and summer for entering first-year students and transfer students who plan to enroll fall semester. Faculty advisers assist new students with reading APAS reports, academic planning and course selection, and guide them through the process of online registration. New students should have official transcripts from all postsecondary institutions attended (including college credit earned while in high school) sent to the Office of Admissions at least two weeks prior to the assigned registration session. These will be incorporated into the APAS report and will assist advisers with recommending appropriate courses.

Morris offers a comprehensive student orientation program that provides information on Morris's educational opportunities, services, and resources. Returning students help new students find their niche in campus life. New Student Orientation is held just before the beginning of the academic year. Students entering Morris spring semester are provided with orientation information at the beginning of the semester.

## Registration for Subsequent Semesters

Students are notified via email, the official form of communication, about registration each semester. All students with fewer than 60 completed credits must meet with their advisers and receive registration approval from them prior to registering. It is recommended that all students meet with their advisers to discuss registration every semester.

Students are encouraged to register early to secure a seat in a class. The registration queue allows seniors to register first, then juniors, sophomores, and freshmen. Then registration is open to all students. Students who do not register prior to the first day of the term will be assessed a registration late fee.

### Annual Planning

For all Morris students, long-range academic planning between students and their advisers occurs during the spring semester, prior to registration for the subsequent fall semester. This long-range planning or Annual Planning provides an opportunity for significant discussion of the breadth and quality of students' liberal education; career objectives, interests, and plans; and technical details of degree requirements. Students who will be freshmen or sophomores in the fall plan their next year; those who will be juniors plan their two remaining years. Seniors are invited to attend "Senior Meetings" at the beginning of fall semester to plan their final year. Students with fewer than 60 completed credits will have a hold preventing them from registering until it is released by their adviser.

### Holds on Students' Records

Students are not able to register if there is a hold on their student record. Students with fewer than 60 completed credits will have an adviser hold preventing them from registering until it is released by their adviser. Holds may also be the result of a financial obligation to the University, such as a library fine or failure to comply with academic regulations. Students should clear their holds as soon as possible since the registration system does not allow students to register until holds are cleared. For more information, see the University policy, available at [www.policy.umn.edu/Policies/Education/Education/REGISTRATIONHOLD.html](http://www.policy.umn.edu/Policies/Education/Education/REGISTRATIONHOLD.html).

### Change in Registration

The Essential Deadlines document provides detailed dates for each term. The last day for students to make changes to their class registration is the 10th class day of fall or spring semester. See the Essential Deadlines document for dates for half-semester and summer term classes, the last day to

add a class, change grading basis for a class, or drop classes without the symbol “W” (for “withdraw”). The “essential deadlines” and details are available at [netfiles.umn.edu/umm/www/registrar/CurrentEssentialDeadlines.pdf](http://netfiles.umn.edu/umm/www/registrar/CurrentEssentialDeadlines.pdf).

## Dropping Classes

The deadline to drop classes is included in the essential deadline information. Canceling classes after the deadline requires approval from the Scholastic Committee and will be granted only for extenuating nonacademic circumstances justifying late withdrawal. Petitions are available through the Office of the Registrar.

Students who receive any type of financial assistance are advised to check with the One Stop Student Services staff before canceling a class. The tuition and fees refund schedule is published on the One Stop Student Services website.

## Withdrawals

Students may withdraw from classes without special permission through week ten of the semester. If a student withdraws from a course during the first two weeks of classes, that course registration is not recorded on the student’s transcript. If a student withdraws after that, a symbol of W appears on the transcript. Detailed course cancellation deadlines are included with the Essential Deadlines document available at [netfiles.umn.edu/umm/www/registrar/CurrentEssentialDeadlines.pdf](http://netfiles.umn.edu/umm/www/registrar/CurrentEssentialDeadlines.pdf).

Withdrawal after the cancellation deadline and through the last day of instruction requires approval from the Scholastic Committee and will be granted only for extenuating nonacademic reasons. The registrar, on behalf of the Scholastic Committee, acts on petitions from students to drop classes after the deadline. Once classes have ended, withdrawal is not allowed.

## Discretionary Course Cancellation— One-time Drop

Students may drop a class after the deadline through the last day of instruction without proof of extenuating circumstances once during his/her career as an undergraduate student at the University. This “one-time-drop” form must be processed at the Office of the Registrar and must be submitted on or before the last day of class for that course. A student may not withdraw after completing the final examination or equivalent for a course. A symbol of “W” appears on the transcript. This rule is part of the University Grading and Transcript policy at [www.policy.umn.edu/Policies/](http://www.policy.umn.edu/Policies/).

## Canceling Out of College

Dropping all classes is a big decision. Students should contact the One Stop Student Services for detailed information about how to proceed.

Until an official notice of cancellation is received in the Office of the Registrar, spaces in the classes are reserved, and tuition and fees charges continue to accrue regardless of nonattendance.

## Refunds

In response to the federal Higher Education Amendments of 1992, the University of Minnesota has established a refund policy that follows federal regulations. Morris has a four-week refund period.

Week one of both fall and spring semesters ends the following week, on the same day of the week that classes began. This allows students whose first course meeting is the Monday of week two at least one day of class before a penalty for cancellation is imposed.

Students are entitled to a full or partial refund or credit of tuition, student services fees, and special course fees as follows. (Refund schedules, including May session and summer session, can also be found on the web at [www.morris.umn.edu/services/business/refundschedules.html](http://www.morris.umn.edu/services/business/refundschedules.html).)

### Refund Schedule

(for day school courses)

100% through the 6th class day  
75% through the 10th class day  
50% through the 15th class day  
25% through the 20th class day  
0% after the 20th class day

The Office of Admissions, the Office of Financial Aid, the Business Office, and the Office of the Registrar work together to verify the date of cancellation. Any aid that has been received by the student is recovered first, as required by the aid programs involved. The Business Office cashier either processes a refund to, or collects the balance from, the student depending upon remaining funds and outstanding obligations to the University. Refund examples are available upon request by contacting the Office of Financial Aid.

Students participating in approved study abroad or student teaching, internships, or other individual projects at remote off-campus locations may be granted a waiver of the student services fees (with the exception of nonrefundable fees) for the period of their absence from the campus. Students should contact the Office of the Registrar for further information on student services fee waivers. Prorated room and board rebates are also available in many cases. See the Student Life Handbook for details at [netfiles.umn.edu/umm/www/residentiaallife/StudentLifeHandbook.pdf](http://netfiles.umn.edu/umm/www/residentiaallife/StudentLifeHandbook.pdf).

## Leave of Absence and Readmission

Students who will not maintain continuous registration for any reason should consult with their advisers about whether to request a leave of absence. Morris students who do not register for one semester and who have not been granted a leave of absence or whose leave of absence has expired will be placed on "inactive" status. Former Morris students are considered for readmission on the basis of their past performance as space is available. Former Morris students who transfer to another college must submit official transcripts from that institution with their applications for readmission. Once readmitted, the Office of the Registrar provides the information needed to register for classes. Forms and procedures related to this policy can be found at [www.policy.umn.edu/Policies/Education/Education/READMISSIONLOA.html](http://www.policy.umn.edu/Policies/Education/Education/READMISSIONLOA.html).

## Student Records Privacy

Regents policy, federal law, and state law regulate release of student information to third parties. University policy regulates sharing of information within the University.

Some student information is designated as directory information and is a matter of public record. Briefly, this includes name, mailing address, email address, telephone number, dates of registration and registration status, major, adviser, college and class, academic awards received, and degrees received.

A currently enrolled student has the right to suppress this information. Students suppress directory information and grant access to parents, etc., through the MyU portal. Once a directory suppression is requested, it will remain active until the student requests its removal. For assistance, contact the Office of the Registrar, 212 Behmler Hall. Additional information is available at [www.morris.umn.edu/registrar/records/](http://www.morris.umn.edu/registrar/records/).

Students have the right to review their educational records, to challenge the contents of those records, and to file a complaint with the U.S. Department of Education.

Additional information is available from the Office of the Registrar.



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## Student Services and Opportunities

At Morris, students will find a wide range of activities and services that will enhance their education and enrich their personal experience. They will become members of a learning community that is continually changing and growing. Morris is a friendly campus where students will come to know many fellow students and staff members on a first-name basis. Each person is not just another student, but an individual responsible for making his or her own decisions and using the many resources of the campus to make the most of her or his education.

Many of the services and extracurricular opportunities available at Morris are described in the following pages. Campus services from Financial Aid to Health Service support students during their college experience. Varied social, educational, and recreational programs extend learning beyond the classroom and provide a full range of night and weekend activities. Opportunities include participation in more than 90 student clubs and organizations where students write for the campus newspaper, deejay on the student radio station, and pursue interests from theatre to international affairs. Intercollegiate athletics, intramurals, club sports, and personal fitness opportunities are available for women and men, teams and individuals. Each of these services and activities enhances the Morris college experience. For the most complete listing of resources and student services on the Morris campus, see the Morris website at [onestop.morris.umn.edu/](http://onestop.morris.umn.edu/).

### Academic and Information Resources

#### Briggs Library

Rodney A. Briggs Library occupies a position at the heart of the Morris campus from physical, virtual, and intellectual perspectives. Located just a few steps from the Student Center in the middle of campus, the library building houses more than 270,000 volumes, as well as journals, music scores, DVDs, CDs, and more. More than 50 networked computers are available, with wireless access throughout the building. The library is also a federal documents depository and maintains a collection of children's books and materials to support Morris's highly rated teacher education program. In addition to housing the UMM Archives and West Central Minnesota Historical Research Center, the library includes a growing number of additional special collections (print and digital) to support historical and other specialized research. Extensive online resources are provided via the library's website. This site serves as the gateway to the library's more than 150 subscription databases and 60,000 online journals, and provides links to other scholarly resources. The library's interlibrary loan service has a high success rate of obtaining materials not available locally. Open 99 hours a week (with extended hours during exam weeks), the library provides a variety of quiet study areas as well as group activity space.

Briggs Library staff provide reference assistance in person, by phone, text, email, or instant message. The library also sponsors and co-sponsors a variety of events, discussion groups, and programs that are popular with both the Morris campus and greater Morris communities.

#### Computing Services

Computing Services supports Morris instructional, research, and administrative programs. It provides the Morris campus network, including wireless networks in all residence halls; central Internet, web, and email services; and student computer labs. Some computer labs are open 24 hours a day during the academic year.

The Computing Services office is located in Behmler Hall 10. The Helpdesk is in HFA 123.

Access to Morris computing facilities is free to all students. Software available on campus lab computers includes applications for email, web browsing, photo editing, and web page management; word processing, spreadsheet, and other office productivity programs; and academic discipline-specific tools, such as statistical packages and geographic information systems.

All Morris students are granted email accounts and may retain their University of Minnesota email accounts after graduating from Morris.

In addition to email, students can access a number of University resources directly from a high-speed Residential Network (ResNet) network connection in every Morris residence hall room, via wireless in most buildings on campus, and from their homes. These resources include the Morris campus library's extensive online system, many discipline-specific applications, and University of Minnesota Google Apps.

Additional information is available online at the Technology at Morris website, [www.morris.umn.edu/technology](http://www.morris.umn.edu/technology).

#### Instructional and Media Technologies

Instructional and Media Technologies (IMT) supports the teaching and research mission of Morris by providing a wide range of instructional technology services in six primary service areas: equipment checkout/venue support, classroom technology, the helpdesk, instructional technology, media production and video and web conferencing. For a complete list of services, go to the Technology at Morris website at [www.morris.umn.edu/technology/](http://www.morris.umn.edu/technology/). For any technical assistance or questions, stop by the IMT Helpdesk in HFA 123, call the Help Line at 320-589-6150, or send an email to [ummhelp@morris.umn.edu](mailto:ummhelp@morris.umn.edu).

IMT maintains the Technology Helpdesk to provide assistance with computer software and hardware issues. The Helpdesk can help students with any problem that may arise with their personal computers, phones, and other devices, as well being the primary contact for any issues with on-campus facilities. The Helpdesk is also available to students for help and instruction in using online University of Minnesota systems, as well as training and instruction with assorted academic-related software. All of the services the Helpdesk offers are provided free of cost for current students. The Helpdesk can also assist students in purchasing software provided at academic discounted rates through the University of Minnesota.

All general-purpose classrooms utilize standardized technology that is supported and maintained by IMT. The user-friendly technology in these classrooms is available for walk-in use by faculty and students and classrooms are equipped with computers, data projectors, screens, sound systems, and controlled by integrated touch control panels. IMT provides a pool of equipment for instructional use that includes Mac and PC laptop computers, data projectors, digital still and video cameras, and portable video production equipment. Faculty and students may check out this equipment on a short-term basis—at no cost—for use with class presentations and individual media projects.

Instructional and Media Technologies manages the Morris Digital Media Lab, a 12-station computer lab located in the lower-level of the Humanities Fine Arts Center (HFA 26) where students can create media-rich video and design projects for both academic and personal use. This lab is also a teaching lab for students in art; music; communication, media, and rhetoric; and theatre disciplines in the use of Adobe Create Suite (Photoshop, InDesign, and Illustrator), Adobe Premiere Pro, Vectorworks, ProTools, Microsoft Office, and many other software titles. Students who wish to edit high-definition video projects can take advantage of the lab's robust EditShare storage server, offering secure management of large video projects. Students can also receive assistance converting video footage from a variety of video sources: cameras, DVDs, SD cards, and numerous video formats for use in their academic or personal projects. Individual accounts can be set up on the shared video server for storing and protecting large video files.

The Technology for Teaching and Learning Lab, located in HFA 35, can help with class media projects. Lab personnel can provide assistance in understanding and using Moodle, blogging, creating presentations using digital media, or other technology based tools. The lab is available for individual and small group instruction by the instructional technology specialist.

IMT supports and maintains the campus's interactive video conferencing systems that provide opportunities for faculty and students to connect with people and places around the world to expand beyond the physical classroom. ITV services

include large, managed statewide systems in addition to personal, peer-to-peer desktop solutions.

Costs for media assistance and production services, except for consumable materials, are not charged to academic units, student organizations, or registered students engaged in instructional activities.

## Office of the Registrar

The mission of the Office of the Registrar is to provide a service-oriented environment that promotes and supports the academic goals of students, faculty, and staff in accordance with University and federal guidelines. It manages all facets of Morris students' academic records, degrees, verification, and transcripts. It supports academic policy implementation and leverages centralized systems to provide streamlined service to Morris students, staff, and faculty. It oversees and implements University-wide technology systems related to academic records, enrollment, and classroom scheduling for the Morris campus. It provides support and services to the Morris campus in the areas of student-related communication; academic records imaging, retrieval, and research; academic policy and procedures; and privacy and security. It contributes expertise in the areas of registration and student records as a Morris One Stop Student Services partner. It supports Morris course scheduling and manages classroom scheduling on the Morris campus.

The Office of the Registrar handles all updates to the Academic Progress Audit System (APAS). Assistance is available on a walk-in basis, via the web, by telephone, email, or by appointment. The office is located at 212 Behmler Hall, 320-589-6030. The Office of the Registrar has a comprehensive website that provides current information at [www.morris.umn.edu/registrar/](http://www.morris.umn.edu/registrar/).

## Health and Wellness Resources

### Health Service

Health Service provides outpatient healthcare clinic service for Morris students in Clayton A. Gay Hall. Students have on-campus access to physicians and nursing staff, medical treatment, routine laboratory tests, immunizations, and some prescription drugs. All students registered for six credits or more may use Health Service through a mandatory student health service fee paid with each semester's tuition and fees. All Health Service records are confidential. Students should complete the Comprehensive Student Health and Disability Report at the time of enrollment and report emergencies and illnesses requiring a physician's care to Health Service.

The student health service fee does not pay for medical or surgical inpatient services at a hospital. Health insurance is required for students enrolled for six credits or more. The University of Minnesota offers a student health benefit plan for students not covered by parents' policies or alternate

coverage. Health insurance coverage must be verified or students are automatically enrolled in the University's student health benefit program.

## Student Counseling

Students face more than just academic challenges while attending college. Student Counseling at Morris helps students through this period of change on intellectual, physical, spiritual, emotional, occupational, and social levels. Mental health counselors help students address potential problems, pitfalls, and opportunities during this exciting, challenging, and sometimes difficult transition in life.

Students are offered counseling for personal concerns, or help with academic decisions and career exploration. Many students use this service to share feelings and to discuss problems in a comfortable and confidential setting. All counseling services are provided free of charge.

Also located in Student Counseling is the UMM Test Center. The Test Center offers institutional placement exams (mathematics and language), exams for credit (CLEP and DSST), and national undergraduate and graduate school admission or licensing exams (ACT, GRE Subject, MAT, LSAT), and the Minnesota Teacher Licensure Exam (MTLE). Questions regarding test registration and procedures can be answered by the test center coordinator.

## Students With Disabilities

Morris is a small, student-centered college which makes this a suitable choice for students with disabilities. Students with disabilities receive personal attention and are accommodated on an individualized basis.

Morris's Office for Academic Success located in 362 Briggs Library, includes Disability Resource Center and the Academic Assistance Center. Disability Resource Center provides support for students with physical and various learning, health related, autism/Asperger, cognitive and/or psychological disabilities. Disability Resource Center staff work with students to ensure that they receive appropriate accommodations and learn self-advocacy skills.

The Morris campus is a mixture of old and new structures; accessibility varies. All teaching facilities and the library, student center, administration building, and food service building are accessible and have elevators.

Students requiring wheelchair access to inaccessible buildings are served by faculty and staff at alternate locations. There is accessible living space in both conventional residence halls and campus apartments.

Students with disabilities are responsible for providing documentation and requesting accommodation far enough in advance for accommodations to be made. Persons with disabilities seeking assistance or information should contact Disability Resource Center in 362 Briggs Library, 320-589-6178, or [oas@morris.umn.edu](mailto:oas@morris.umn.edu). Visit the Office for Academic Success website for more information at [www.morris.umn.edu/academicsuccess](http://www.morris.umn.edu/academicsuccess).

## Diversity and Equity Resources

### Office of Equity, Diversity, and Intercultural Programs

The Office of Equity, Diversity, and Intercultural Programs works collaboratively with campus and community partners to meet the needs of students, foster inclusive diversity, and promote intercultural competence. The office coordinates the International Student Program, Multi-Ethnic Student Program, GLBTA Programs, and other resources for students on the campus.

### International Student Programs

Morris provides a unique opportunity for international students by offering a rigorous, liberal arts experience with access to the research capabilities of one of the nation's most comprehensive university systems. Faculty members make student learning and development their highest priority, giving students a chance to develop close, collaborative working and learning relationships with their professors. The International Student Program Office (ISP) provides academic and social support and visa advising for students on campus.

There are a wide variety of activities and clubs available to students while they are on campus. The Friendship Program, the Ambassador Program, and many International Student Association events are all designed to help international students adjust to living and studying at UMM. A specialized international student orientation takes place before the beginning of each semester to help students plan their academic program, get settled in their housing, and begin to understand the culture of American society and west central Minnesota. Students also have the opportunity to attend the Morris summer intensive English program, STELLAR (Summer Transition for English Language and Liberal Arts Readiness).

### Multi-Ethnic Student Program

The Multi-Ethnic Student Program (MSP) provides culturally relevant services to ensure a supportive environment for students of color and to promote equity and social justice. MSP staff connect students to resources like funding to support travel to educational conferences, institutes, and summits; the Multicultural Mentorship Program for second-year students; World Touch Cultural Heritage Week; leadership development and volunteer opportunities; and information about scholarships, career, internships, and graduate study.

MSP, located in the Multi-Ethnic Resource Center (MRC), is also a great place for students to socialize, relax, meet, and study. Throughout the year, students can explore cultural programs and events sponsored by MSP and various student-of-color organizations. MSP helps and guides students throughout their time at Morris.

## Resource Center for Gender, Women, and Sexuality

The Resource Center for Gender, Women, and Sexuality is a safe, confidential space dedicated to issues of equity, sexual diversity, and empowerment for faculty, staff, and students. Located in the lower level of the Multi-Ethnic Resource Center, the RCGWS is home to the Commission on Women and Queer Issues Committee, as well as several student organizations, including E-Quality, Morris Feminists, and Women of Color. Staffed on a volunteer basis by students, faculty, and staff, the center has a computer, equipment for PowerPoint and other presentations, a comfortable meeting space, and a lending library with books, videos, and pamphlets.

## Commission on Women

The Commission on Women (CW) seeks to strengthen the community by enriching women's working and learning environments and creating a campus environment that is respectful, inclusive, and productive for all University employees and students. Over the years, the CW has acted as a catalyst for women's equity and as an advocate for fair treatment of women in academic and campus life. The CW partners with other campus programs and offices in promoting dialogue, challenging norms and values that demean or devalue women, and supporting constructive change. The CW's work includes advocacy actions. Advocacy efforts have included promoting staff gender balance and pay equity, development and recommendation of consistent and supportive backfill policies, coordination and support of campus and community resources for student parents, and events celebrating the accomplishments of Morris women. The coordinator for the Commission represents the CW in the campus governance system, holding ex-officio membership on three of Morris's Campus Assembly committees.

Additional information is available on the web at [www.morris.umn.edu/comwomen](http://www.morris.umn.edu/comwomen).

## Queer Issues Committee

The Queer Issues Committee is a group of faculty, staff, and students who meet regularly to work toward making UMM and its surrounding community safe places for gay, lesbian, bisexual, transgender and allied students, faculty, and staff through programs and activism aimed at increasing visibility, awareness, and understanding of GLBTQA issues. This is accomplished through the following avenues:

- Coordinating UMM's Safe Zone Training Program, open to anyone in the community.
- Co-sponsoring events and speakers.
- Hearing individual concerns and offering referrals and advocacy.

- Working on systemic concerns, such as gender open housing and hate crime reporting, through UMM's governance system.
- Working to improve institutional support for GLBTQ students, faculty, and staff.

Additional information is available at:

<http://www.morris.umn.edu/equitydiversity/qic/>.

## Student Life, Activities, and Engagement

### Residential Life

Living on campus at Morris means being part of an active living and learning community. Residence hall living gives students a unique opportunity to meet new friends and interact with a variety of people. Living on campus means being close to classes and facilities and encourages involvement in college activities. All residence hall rooms have direct, high-speed Morris computer network access—with one connection for each resident. Wireless access is available in residence halls and in many locations across campus. Visit [www.morris.umn.edu/wireless](http://www.morris.umn.edu/wireless).

Variety makes living on campus attractive. Morris has five residence halls, ranging from small, traditional settings to larger, contemporary settings. Apartment living is also available in furnished, two-bedroom units designed for four students. Residential life at Morris includes the following options.

**Clayton A. Gay Hall** accommodates over 200 students with 35 students living on each floor. There are two separate lounge areas and kitchenettes on every floor. Gay Hall is coeducational by wing, floor, or alternating rooms and has open visitation.

**David C. Johnson Independence Hall (DCJI)** accommodates 230 students in double rooms with 20–30 students living in each wing. There are lounges and kitchenettes on each floor. DCJI Hall is coeducational by either alternating rooms or wings and has open visitation.

**Pine Hall**, known for its unique, private location near the Humanities Fine Arts building, houses 80 students. A kitchen and game room are located on the ground floor. All floors have an open guest policy and are coeducational by alternating floors.

**Spooner Hall** is a traditional-style residence hall. Designed to accommodate 90 upper level students, it features large rooms and a comfortable atmosphere distinguished by the Main Lounge on the second floor, which is noted for its charm and warmth. Spooner Hall is coeducational by alternate floors and has open visitation.

**The apartment complex** at Morris offers facilities for 200 upper level students. The three-to-four-person apartments have two double bedrooms, a kitchen-living room, and a private

bath. They provide the flexibility of apartment living arrangements with the convenience of being on campus.

**The Green Prairie Community**, Morris's new residence hall, houses 70 students in suite-style housing. The facility features a first-year sustainability theme floor and green living for upper level students. All floors have a kitchenette-lounge. The Green Prairie is coeducational by alternating rooms.

Students living in the residence halls may choose to have single rooms, if space is available, at a slightly higher rate than that for double rooms. The residence halls are served by a central Dining Hall within easy walking distance. The apartments have cooking facilities in each unit.

For more information about on-campus housing, contact the Office of Residential Life, University of Minnesota, Morris, MN 56267-2134 or visit the Morris Housing website at [www.morris.umn.edu/residentiallife](http://www.morris.umn.edu/residentiallife).

## Student Center

The Student Center serves as a community center for Morris students, faculty, staff, alumni, and guests. The Student Center includes three primary gathering places: the Turtle Mountain Cafe, a popular location for lunch, studying, socializing, and meetings; Oyate Hall, a large multipurpose room with a fireplace lounge and panoramic view of the mall; and Edson Auditorium, home to many campus performances and events. Higbies is home to the Information Center and campus coffee shop. In addition, the Student Center provides lounge and study space (including Louie's Lower Level, a 24-hour student lounge, and a computer lab), offices and meeting places for student activities and organizations, the Academic Center for Enrichment, KUMM Radio, and other student focused programs and functions.

The facility is the center for co-curricular activity on the campus. The activities, events, and functions that take place in the Student Center—club meetings, concerts, conferences, forums, and world-class performances and lectures—enrich student life and are an integral part of the Morris experience.

## Student Activities

The Office of Student Activities coordinates and supports Morris's co-curricular programs designed to meet the social, educational, cultural, and recreational needs of the campus. It provides professional assistance to student organizations and is perhaps the single best source of information and technical expertise for individuals or groups of students who would like to get something done, see something happen on campus, or simply become involved. By participating in student organizations, Morris students develop leadership and organizational skills, meet new people, make a difference on campus, and have fun.

Morris has more than 90 campus life programs, University recognized organizations, and independent student groups.

These organizations provide opportunities for involvement in academic, social, cultural, religious, and recreational activities, as well as the opportunity to explore and discuss local, national, and international issues. At the beginning of each year, Morris sponsors an Activities Fair that serves as a showcase for the many student organizations. The Activities Fair provides new students with an opportunity to meet students active in a particular organization and learn about the group's activities and events, gain an understanding of each organization's purposes and goals, and join the organizations that match their interests.

A complete list of student organizations is available online at <https://umnmorris.collegiatelink.net/>.

## Morris Campus Student Association

The Morris Campus Student Association (MCSA) exists to represent the interests of students on the Morris campus of the University of Minnesota. The central policy-making body of Morris, the Campus Assembly, consists of faculty, staff, and elected student representatives. These students, along with other elected or appointed student representatives, form the student government, the MCSA Forum. The Forum provides most of the recommendations for student membership on campus committees. It is the major source for expressing student opinion and initiating legislative action to promote and protect student interests. First-year students can become involved in the MCSA through the First-Year Council.

## Campus Activities Council

The Campus Activities Council (CAC) is the major activities and events planning organization on the Morris campus. Through funds provided by the Activities Fee, CAC offers a wide variety of cultural, social, recreational, and educational programs. CAC events range from professional music, theatre, and dance performances to an annual lecture series, free films, stand-up comedy, live music, and community-building activities. Each year CAC works to "bring the world to Morris."

Involvement in CAC may range from attending and enjoying a variety of events to becoming an active member of any of the five student committees: Concerts, Performing Arts, Homecoming and Traditions, Films, and Convocations (lectures). Each committee selects, organizes, and promotes events in its program area. Committees also work with other campus organizations to present special events.

## Campus Media

KUMM—the U-90 Alternative (89.7 FM) and *The University Register* provide the campus community with campus news, information, student opinions, and entertainment. KUMM broadcasts alternative radio 7 days a week, 24 hours a day during the academic year. The student newspaper, *The University Register*, is published weekly throughout the academic year. KUMM and *The University Register* are student-run organizations staffed by dedicated volunteers. A

conservative student newspaper began publishing in 2004-05; it is currently titled *The Morris NorthStar*.

## Office of Community Engagement

The Office of Community Engagement provides students with many opportunities to get involved in the regional and broader community. Students interested in working with community members on projects that benefit the community can do so in a number of ways, from group to individual projects, one-time to ongoing projects, and work that incorporates everything from direct service to community building to research. Office staff can help individual students, student organizations, athletic teams, and residence hall floors choose and develop opportunities that make the most sense given their interests, skills, goals, and majors/minors. The office also coordinates several programs to facilitate community engagement, including a Community ESL program, providing students with the opportunity to teach English to new immigrants; a TREC (Tutoring, Reading, and Enabling Children) program providing students with the opportunity to tutor and mentor preschool and elementary school children; a Soup and Substance dialogue series about ways to get involved in social issues affecting the community; a free community meal featuring homemade, locally-sourced foods that provides students with multiple service opportunities; and service-learning courses that incorporate community engagement into classes in multiple disciplines on campus.

## Campus Events and Activities

In addition to the activities presented by the Campus Activities Council, a variety of other options for cultural enrichment and entertainment are available. A large number of student organizations and residence hall groups organize events and programs of their own. The Morris symphonic winds, choirs, jazz ensembles, and theatre also present outstanding performances. Zombie Prom, the Yule Ball, Asian Association talent show, and the UMMY's annual film festival are a few popular annual events.

Several week-long themes are addressed through a variety of program activities on campus each year. Early in the fall, Homecoming activities include the traditional football game, the annual residence hall tug of war, a dance, and more. In the spring, World Touch Cultural Heritage Week focuses campus attention on the issues, accomplishments, culture, history, and art of U.S. people of color.

## Fine Arts Programs

The Campus Activities Council (CAC) Performing Arts Series sponsors several performances by artists of national and international stature each year. In addition to the dance, music, and theatre series, the Morris Jazz Ensembles cosponsor the annual spring Jazz Festival featuring professional guest artists and jazz at its finest.

The Morris studio art and art history faculty arrange regular exhibits in the Edward J. & Helen Jane Morrison Gallery during the year. These exhibits include original works of artists from many periods and mediums, as well as paintings, drawings, prints, and sculptures by Morris students and faculty.

University theatre students and faculty produce classical and contemporary plays each semester during the academic year. In addition, the Meiningens, a student group dedicated to providing theatre experience for its members, offers dramatic productions.

Concerts are scheduled throughout the year by the Morris Symphonic Winds, University Choir, Concert Choir, and Jazz Ensembles. Student and faculty recitals—vocal and instrumental—are scheduled frequently for student and community enjoyment.

Displays of rare books are exhibited in the library. Included are general and specialized exhibits of books ranging from the medieval period to modern times.

## Sports and Recreation

Recreational activities and organized sports are important features of life at Morris. Intercollegiate and intramural athletic programs contribute to participants' general education. Opportunities for personal fitness, recreation, and team competition include state of the art fitness facilities in the Regional Fitness Center, intercollegiate and club sports, intramural leagues, wellness and sports science courses, and indoor and outdoor recreation clubs. Through these athletic and recreational experiences, students have the opportunity to improve their level of personal fitness.

The staff in sport studies and athletics, intramurals and recreation, and the Regional Fitness Center are dedicated to helping each individual participant realize this goal.

**Intercollegiate Athletics**—Morris is an NCAA Division III member of the Upper Midwest Athletic Conference. The Morris Cougars compete in eight sports for men and nine sports for women. Men's varsity sports include cross country, soccer, football, golf, basketball, baseball, tennis, and track and field. Women's varsity sports include soccer, cross country, volleyball, golf, basketball, softball, swimming and diving, tennis, and track and field.

**Intramural Sports**—Men's, women's, and coed intramural leagues are offered each semester in a variety of sports including flag football, basketball, volleyball, slow pitch softball, kickball, and badminton. Weekend tournaments and opportunities for individual competition typically include 3-on-3 basketball, disc golf, tennis, 4-on-4 basketball, and the annual Tinman Triathlon.

**Sports Clubs**—A number of sports clubs have been organized as a result of student-faculty interest. Men's and women's rugby, ultimate Frisbee, fencing, karate, and ground quidditch have many enthusiastic members. Many of the

clubs travel to other colleges and host tournaments at Morris.

**Regional Fitness Center**—The Regional Fitness Center’s recreation and fitness facilities serve UMM students as well as Morris and Stevens County community members. Cardio and state-of-the-art strength machines, water and land group fitness classes, aerobics courses, court time, and a walking/running track offer year-round indoor recreation and fitness opportunities. Swimmers and divers of all levels can spend many hours in the regulation NCAA/AAU pool, diving tank, or warm water pool.

Morris students registered for six credits or more are members of the Regional Fitness Center through a student fee paid each semester with tuition and fees. Students, faculty, and staff are encouraged to use the Regional Fitness Center and Physical Education Center facilities.

Students in residence halls have access to recreation facilities, including sand volleyball courts, pool tables, and table tennis.

For outdoor enthusiasts, there are excellent recreational facilities for biking, hiking, fishing, hunting, boating, and skiing within a few miles of the Morris campus. The RFC offers maps of bike routes along with canoes, cross country skis, snow shoes, and other gear for rent.

## Alumni Association

The Morris Alumni Association offers students opportunities for networking with alumni across the United States and around the world. Alumni often are willing to assist students in locating internships and jobs and to offer advice about the “real world.” Students and alumni can join the secure online network “Morris Connect” and network 24/7.

Morris students have access to the publication *Profile*, which is produced by the Morris Office of External Relations and sponsored by the Morris Alumni Association.

Students can visit the Morris Alumni Association at 106 Welcome Center, or on the web at [www.morris.umn.edu/alumni](http://www.morris.umn.edu/alumni).

## Campus Safety and Security

Morris is committed to each student’s safety and wellbeing. Campus programs support student wellness, foster the building of healthy respectful relationships, uphold campus policies, and promote individual action to create a violence-free campus. **Each Morris student, faculty and staff member contributes to a healthy campus community for us all.** Campus safety resources are provided at [onestop.morris.umn.edu/safety/](http://onestop.morris.umn.edu/safety/).

**UMM Campus Police** serve the campus and are responsible for all property owned by the University in the area. Their staff of full-time police officers and community service officers provide proactive patrol, crime prevention, investigative, law enforcement, and emergency services 7 days/week, 24-hours each day throughout the academic year.

Campus Police officers are licensed as “peace officers” by the State of Minnesota. Minnesota State Statute 629.40 gives peace officers statewide arrest powers while acting in the course and scope of employment. The department investigates all crimes that occur on University property. By working closely with federal, state, and local police agencies, the department strives to provide a safe environment for all students, staff, faculty, and visitors. It is University policy to encourage the prompt reporting of any crimes committed on campus to Campus Police and other appropriate law enforcement agencies and to assist the victims of those crimes.

Morris’s campus safety and security programs cover the academic buildings, residence halls, student life facilities, and campus grounds. Morris Campus Police emphasize crime prevention by minimizing crime opportunities and encouraging students and employees to be responsible for their own and others’ security. Campus safety programs include violence prevention programming, annual training on security measures and emergency/crisis management for residence life staff, regular lighting surveys of exterior campus lighting, and 24-hour access phones in public areas within campus buildings and parking areas.

Everyone on campus plays an important role in creating a safe community. Students, faculty, staff, and visitors are encouraged to contact Campus Police with any safety questions or concerns.

Morris publishes an annual Campus Safety and Security Report in compliance with federal legislation—the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. This legislation requires all public and private colleges receiving federal financial aid to provide annual information on campus safety services, crime reporting and the University’s response, data regarding crimes occurring on campus, and relevant policies and procedures. The report is available online at [www.morris.umn.edu/police/](http://www.morris.umn.edu/police/).

**Green Dot Bystander Education: No one can do everything but everyone can do something.** “Live the Green Dot is an approach to violence prevention that capitalizes on the power of peer and cultural influence across all levels of society.” The University of Minnesota Morris is a partner in the Green Dot Bystander Education Program engaging campus community members in raising awareness about and taking steps to prevent personal power based violence including sexual assault, relationship violence and stalking: crimes experienced by thousands in the United States and around the world each year.

**Reporting and responding to sexual assault, relationship violence, domestic violence and stalking.** Sexual assault, dating violence, domestic violence and stalking are prohibited at the University of Minnesota. UMM’s violence prevention and response program is coordinated by the Offices of Student Affairs, Campus Police, and Equal Opportunity working in partnership with Someplace Safe,



the Stevens County sexual assault and relationship advocacy and crime victims services provider.

Violence Prevention and Response folder & information inserts and related University policies and procedures are provided on [onestop.morris.umn.edu/safety/](http://onestop.morris.umn.edu/safety/).



# College Regulations

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# College Regulations

## Grading and Transcripts

The University of Minnesota Grading and Transcript Policy addresses grading and transcripts, scholastic dishonesty, incomplete grades, course withdrawal, repeating courses, grading deadlines, dean's list, and compiling and reporting grades. For complete details, go to [www.policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html](http://www.policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html).

A standard grading system establishes a common understanding of the meaning of grades and promotes uniformity in assigning them. Defining grades and their associated meaning, grade points and assessment of achievement, allows for comparison and for computation of the term and cumulative grade point average.

There are two distinct grading systems on each campus of the University, A-B-C-D-F, with pluses and minuses as permitted, and S-N. The S-N system is a self-contained alternative to the A-F system. The two may not be combined for a particular student in a particular course. For undergraduates, an S grade is equivalent to a C- or better.

When both grading systems are available, the student must declare a choice of system as part of the initial registration for the course. The choice may not be changed after the end of the second week of classes (the first week in summer sessions).

The list below identifies the possible permanent grades that can be given for any course for which credit is to be awarded. These grades will be entered on a student's official transcript and for an A, B, C, or D, with permitted pluses and minuses, carry the indicated grade points. This list identifies the general University standards. At one of their earliest meetings, instructors will define for their classes, as explicitly as possible, the performance that will be necessary to earn each symbol of achievement.

### Grading

|             |            |  |
|-------------|------------|--|
| A.....      | 4.000..... | Represents achievement that is outstanding relative to the level necessary to meet course requirements.  |
| A- .....    | 3.667      |  |
| B+ .....    | 3.333      |  |
| B.....      | 3.000..... | Represents achievement that is significantly above the level necessary to meet course requirements.  |
| B-.....     | 2.667      |  |
| C+ .....    | 2.333      |  |
| C.....      | 2.000..... | Represents achievement that meets the course requirements in every respect.  |
| C- .....    | 1.667      |  |
| D+ .....    | 1.333      |  |
| D .....     | 1.000..... | Represents achievement that is worthy of credit even though it fails to fully meet the course requirements.  |
| S .....     |            | Represents achievement that is satisfactory (equivalent to a C- or better).  |
| F or N..... |            | Represents failure or no credit and indicates that coursework was completed but at an achievement level unworthy of credit, or was not completed and there was no agreement between the instructor and student that the student would be awarded an I. Academic dishonesty is grounds for an F or N for the course. The F carries 0.00 grade points and is included in GPA calculations; the N does not carry grade points and is not included in GPA calculations.  |
| I .....     |            | Incomplete, a temporary grade that indicates coursework has not been completed. The instructor assigns an I when, due to extraordinary circumstances, a student is prevented from completing coursework on time. At the Morris campus the student must have successfully completed a substantial portion of the courses work. An I requires a written agreement between the instructor and student specifying the time and manner in which the student will complete the course requirements during the students next term of enrollment. For undergraduates and nondegree-seeking students, work to make up an I must be submitted within one year of the final examination; if not submitted by that time, the I will automatically change to an F (if A-F registration) or N (if S-N registration). The instructor is expected to turn in the new grade within four weeks of the date work is submitted. When an I is changed to another symbol, the I is removed from the record. Once an I has become an F or N, it may be converted to any other grade by petition of the instructor (or department if the instructor is unavailable). |
| K .....     |            | The symbol K, assigned by an instructor, indicates the course is still in progress and that a grade cannot be assigned at the present time.  |
| NG.....     |            | No grade required.   |
| NR .....    |            | Not Reported.  |
| T .....     |            | Transfer credit or test credit.  |
| V .....     |            | Visitor, indicates registration as an auditor or visitor; does not carry credit or grade points.   |
| W .....     |            | Withdrawal, indicates a student has officially withdrawn from a course. If a student withdraws from a course during the first two weeks of classes, that course registration is not recorded on the student's transcript. Withdrawal after the 10th week of classes (fourth or later in summer terms) requires a petition and college approval. Approval to withdraw after the deadline requires extenuating, nonacademic circumstances.   |
|             |            | Once during his or her undergraduate enrollment, at any time up to and including the last day of class for a course, a student may withdraw from that course without college approval and receive a W.   |
| X .....     |            | Continuation course. Indicates a student may continue in a sequence course in which a grade cannot be determined until the full sequence of courses is completed. The instructor submits a grade for each X when the student completes the sequence.   |

## Scholastic Dishonesty

Scholastic dishonesty in any portion of the academic work for a course will be grounds for awarding a grade of F or N for the entire course, at the discretion of the instructor. This provision allows instructors to award an F or an N to a student when scholastic dishonesty is discovered; it does not require an instructor to do so. Students who enroll for a course on the A-F grading system will receive an F if such grade is warranted; students who enroll for a course on the S-N system will receive an N if such grade is warranted.

If the instructor determines that a grade of F or N for the course should be awarded to a student because of scholastic dishonesty, the student cannot withdraw to avoid the F or N. See the Board of Regents Policy: Student Conduct Code at [regents.umn.edu/sites/regents.umn.edu/files/policies/Student\\_Conduct\\_Code.pdf](http://regents.umn.edu/sites/regents.umn.edu/files/policies/Student_Conduct_Code.pdf) for a definition of scholastic dishonesty.

## Academic Transcript

The University's official transcript, the chronological record of the student's enrollment and academic performance, is released by the University only at the student's request or in accord with state or federal statutes. Students must have met all financial obligations to the University and have no judicial holds before official transcripts can be released for any purpose.

Official transcripts are certified and signed by the University registrar. At the student's request, official transcripts can be directly sent to the student or another recipient. An electronic (secure, certified PDF) transcript is "official" in its electronic form as long as it is not altered. Each time the file is opened, it will be certified electronically (internet connection required) to ensure it has not been altered. A printed copy of a PDF transcript is not official. The online request is the most convenient way to order an official transcript. More information, including cost and instructions, are available at [www.morris.umn.edu/registrar/transcripts/](http://www.morris.umn.edu/registrar/transcripts/).

## Classes, Schedules, and Examinations

### Class Attendance

Students must attend the first class meeting of every part of a course in which they are registered (including, for example, labs and discussion sections), unless they obtain prior approval from the instructor (or department, if appropriate) for an intended absence before the first class meeting; without such prior approval, a student may lose his or her place in the class to another student. The registration materials should alert students to the fact that they must attend the first session of a course, whether that session is a lab, discussion section, lecture, or some other class meeting. For further information regarding the parameters around what is a legitimate absence and the responsibilities of the instructor and the student, see "Mandatory Attendance at

the First Class Session and Consequences for Absence" at [www.policy.umn.edu/Policies/Education/Education/MANDATORYFIRSTCLASS.html](http://www.policy.umn.edu/Policies/Education/Education/MANDATORYFIRSTCLASS.html) and "Makeup Work for Legitimate Absences" at [www.policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html](http://www.policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html).

### Standard Class Schedule and Class Period

A standard class schedule at the University of Minnesota, Morris consists of 65-minute classes on Monday, Wednesday, Friday (MWF) or 100-minute classes on Tuesday, Thursday (TTh) with an appropriate change period between classes. Classes of longer than 65 or 100 minutes are permitted, subject to University policies governing the relationship between contact hours, credits, and student workload. See the Class Scheduling Policy at [www.policy.umn.edu/Policies/Education/Education/CLASSSCHEDULING.html](http://www.policy.umn.edu/Policies/Education/Education/CLASSSCHEDULING.html), Expected Student Academic Work per Credit Policy at [www.policy.umn.edu/Policies/Education/Education/STUDENTWORK.html](http://www.policy.umn.edu/Policies/Education/Education/STUDENTWORK.html), and Directed Study, Directed Readings, and Directed Research policy at [www.policy.umn.edu/Policies/Education/Education/DIRECTEDSTUDY.html](http://www.policy.umn.edu/Policies/Education/Education/DIRECTEDSTUDY.html).

### Overlapping Classes

To ensure students are actually able to attend the courses in which they enroll, students are not allowed to register for classes that overlap. Classes that have any common meeting time are considered to be overlapping.

Only under extenuating circumstances are petitions for overrides for such conflicts permitted; these petitions require the signatures of all faculty members involved. The decision to approve or disapprove such an override petition is entirely discretionary with each faculty member involved. The entire policy "Enrolling in Overlapping of Back-to-Back Classes" can be found at [www.policy.umn.edu/Policies/Education/Education/OVERLAPPINGCLASSES.html](http://www.policy.umn.edu/Policies/Education/Education/OVERLAPPINGCLASSES.html). Class Time Conflict Approval ([netfiles.umn.edu/umm/www/registrar/time\\_conflict.pdf](http://netfiles.umn.edu/umm/www/registrar/time_conflict.pdf)) petitions must be submitted in person to the Office of the Registrar.

### Examinations and Final Exams

The examination and final examination policy of the University of Minnesota includes greater detail on the policies discussed in this section. It can be found at [www.policy.umn.edu/Policies/Education/Education/EXAM.html](http://www.policy.umn.edu/Policies/Education/Education/EXAM.html).

Instructors are not permitted to hold their final examinations ahead of the regularly scheduled time except under unusual circumstances and with approval of the appropriate division chairperson.

For more information on the process of requesting an exemption, refer to the above policy link or contact the Scholastic Committee at ext. 6011 or 204 Behmler Hall.

## Repeating a Course

Students may repeat a course once. However, students who receive a grade of S, C, or better may repeat a course only if space permits. When a student repeats a course, 1) both grades for the course will appear on the official transcript, 2) the course credits may not be counted more than once toward degree and program requirements, and 3) only the last enrollment for the course will count in the student's GPA. Additional details are in the "Grading and Transcript" policy at [www.policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html](http://www.policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html).

## Special Ways to Earn Credit or Demonstrate Proficiency

### Examinations for Course Credit

Departments may wish to have a means of allowing students to demonstrate existing proficiency in a subject without requiring the student to complete coursework. On the Morris campus, the Scholastic Committee serves in the role of the academic department and has all related responsibilities. Current information, forms and procedures are in the policy "Departmental Exams for Proficiency or Credit for Undergraduate Students" at [policy.umn.edu/Policies/Education/Education/DEPTCREDITEXAM.html](http://policy.umn.edu/Policies/Education/Education/DEPTCREDITEXAM.html).

### Portfolio Evaluation

This method of evaluation involves faculty review of a portfolio in which the student translates prior learning experiences into educational outcomes and documents those experiences for academic credit. A special fee is required.

### Placement and Proficiency Examinations

Placement examinations in math and languages are administered by the UMM Test Center, require no fee, and yield no credit or grade. These examinations may be taken by appointment. Proficiency examinations in foreign languages are administered by the UMM Test Center, 235 Behmler Hall, 320-589-6060.

### Nationally Administered Examinations for Credit

The Scholastic Committee, with the concurrence of the appropriate discipline, recognizes and awards credits based on nationally administered examinations that are taken as part of the Advanced Placement (AP) Program, the College Level Examination Program (CLEP), DANTES Subject Standardized Tests (DSST), and the International Baccalaureate (IB) Program. These credits awarded become applicable to a University of Minnesota degree program or

certificate program only after the student has been admitted and enrolled as a degree-seeking student. The national examinations are reviewed every five years. The Scholastic Committee has approved the use of AP, CLEP, DSST, and IB credits in the General Education Requirements; faculty have approved the use of CLEP, DSST, IB, and AP credits in specific majors. Review the current qualifying scores at [www.morris.umn.edu/committees/scholastic/creditbyexam](http://www.morris.umn.edu/committees/scholastic/creditbyexam).

### Advanced Placement Examinations

Entering freshmen may receive credit in more than 30 subjects for qualifying scores of 3 or higher on Advanced Placement examinations. Nonresident credit is awarded when Morris processes an official report from the AP Program. Students who have taken AP examinations should request that an official transcript of their scores be sent to the Admissions Office.

### CLEP Examinations

To select, prepare, and register for exams, go to [www.CLEP.collegeboard.org](http://www.CLEP.collegeboard.org).

Students who have taken CLEP examinations should submit an official transcript of their scores to UMM where they will be processed for appropriate credit allocation. See UMM's score conversion table at [www.morris.umn.edu/testcenter/examsforcredit/CLEP/](http://www.morris.umn.edu/testcenter/examsforcredit/CLEP/).

If a student has earned college credits in the area of the examination before taking it, he or she will receive only the difference between these credits and the eight-credit maximum permitted. If a student has earned eight or more credits in the area of the examination, no credit will be granted for successful completion of the test.

### General Exams

General exams are offered in Humanities, Mathematics, Natural Science, and Social Science. Registered students may be awarded credits for obtaining satisfactory scores. These credits may be counted toward the 120 semester credits required for graduation but they do not substitute for Morris courses or satisfy the residency requirement.

### Subject Exams

Students may also earn credit by successfully passing the CLEP subject examinations, which measure achievement in specific college courses. There are more than 30 CLEP subject examinations covering the content of a variety of courses. To earn credits, a student must meet the national qualifying score, based on a norm group of college students who have already passed the course for which the examination is intended.

## International Baccalaureate

Students who complete an International Baccalaureate (IB) diploma with a score of 30 or higher and have no examination scores lower than 4 are awarded 8 credits for each of three higher-level examinations, plus 2 credits for each of three subsidiary exams, for a total of 30 credits. No credit is given for subsidiary-level exams other than those included as part of the IB diploma, but students may receive credit for any higher-level exams with a score of 5 or higher. The Scholastic Committee has approved use of IB credits to meet specific general education requirements. Faculty determine if IB credits may be used in a major. (This is all completed through the Scholastic Committee process. Students do not contact faculty.) To receive credit, students who have completed IB examinations should provide an official record of their scores to the Office of Admissions.

## Military Service School Experience

Morris does not grant college credit for military service. The Scholastic Committee does, however, grant credit for military service school experience when formal training courses have substantial liberal arts content and have counterparts in the normal liberal arts curriculum. In evaluating such training, the Scholastic Committee uses the Guide to the Evaluation of Educational Experiences in the Armed Forces published by the Commission on Accreditation of Service Experiences of the American Council on Education. To obtain credit, a student must verify the service school attendance as well as successful completion of the work for which credit is requested.

## Organizational Sponsored Instruction

The University of Minnesota, Morris may grant credit for formal educational programs and courses sponsored by noncollegiate organizations if they have substantial liberal arts content and have counterparts in the normal liberal arts curriculum. In evaluating such training, the Scholastic Committee uses the Guide to Educational Programs in Non-Collegiate Organizations of the American Council on Education and similar guidelines published by other national agencies. To obtain credit, a student must verify successful completion of the work for which credit is requested.

## Academic Standing

The minimum academic progress requirements are based on two measures: the cumulative GPA measures performance over time; the term GPA measures performance within the term. The authority for administering the requirements and taking necessary action rests with the Scholastic Committee. (The Financial Aid Office monitors separate financial aid Satisfactory Academic Progress [SAP] requirements. For more information, see [www.morris.umn.edu/financialaid/academicprogress](http://www.morris.umn.edu/financialaid/academicprogress).)

*All students must maintain both a 2.000 cumulative GPA and a 2.000 term GPA to be in good standing.*

## University of Minnesota Probation and Suspension Policy

For current information, see [policy.umn.edu/Policies/Education/Education/ACADPROBATION.html](http://policy.umn.edu/Policies/Education/Education/ACADPROBATION.html).

### Probation

- A student will be placed on probation (and will remain on probation) if either the term or the cumulative GPA is below 2.000. A student on probation will have a hold placed on his or her record and must see an adviser in order to register. While on probation, Morris students may not enroll in more than 16 credits without Scholastic Committee approval.
- Academic contract. Colleges may develop contracts specifying additional requirements that students enrolled in that college must meet to be removed from probation or to register for classes while on probation. The academic contract may include GPA expectations more rigorous than the 2.000 term and cumulative GPA minimum standard, where programmatically warranted and when clearly communicated to the student. If the student meets the conditions of the contract, and the term and cumulative GPA are at least 2.000, the student will be removed from probation. Even if the contract conditions are met, the student must still meet the minimum GPA requirements of this policy. If the conditions of the contract are not met, the student will be suspended.
- Registering while on probation. Students will be given an override for the probation hold to enable them to register when they have met with an adviser and, if a contract is required, when the student's academic adviser and the registrar are satisfied that the conditions of the contract have been met.

Students on probation return to good standing by earning a term GPA and cumulative GPA of 2.000.

### Suspension

A student is suspended if:

- at the end of the probation term (semester), both the term and the cumulative GPA are below 2.000, or
- the conditions of an academic contract are not fulfilled. The suspension is effective immediately.

**Consequences of suspension**—When suspended, a student is no longer in the program and cannot register for any University courses for at least one full academic year. All colleges and campuses at the University must recognize the probationary holds and will not allow students, including non-degree seeking students, with these holds to register without the approval of the college placing the hold.

**Appealing suspension decisions**—Students may appeal suspension decisions or petition for re-admission in writing to the college's Student Scholastic Standing Committee (SSSC) according to a defined collegiate petition process.

**Re-admission after suspension**—Re-admission after a period of suspension is not automatic. To be re-admitted, a student must show evidence of changes in circumstances that demonstrate that he or she will succeed in an academic program.

**Returning to the college or a different college after suspension**—Upon return to the college after petitioning to reenter, students will be placed on probation, and all colleges will use a probation hold and contract for the purpose of monitoring the student's performance. If the student does not successfully complete the contract, he or she will be suspended again, but then will be required to reapply for admission to a college, rather than petition to reenter.

**Appeal to Return After One Semester**—Suspended students may appeal to the Student Scholastic Standing Committee using the online appeal form at [www.morris.umn.edu/scholastic/](http://www.morris.umn.edu/scholastic/) under Resources. The appeal is due by June 30 and should include an academic plan for improvement, evidence of successful completion of evening, summer, or transfer work; and/or evidence that personal difficulties are being addressed.

If the student wishes to have the Counseling Office, Academic Assistance, or Disability Resource Center provide input on an appeal, they must have written approval (with the student's signature) prior to the hearing of the appeal. Without this approval, their input cannot be considered. Decisions on appeals are made in July.

If the appeal is approved, the Committee determines the conditions that must be met during the semester the student returns. If those conditions are not met, the original suspension is reinstated at the end of the term.

**Students with an approved appeal remain on probation**—The Student Scholastic Standing Committee prescribes special conditions in an effort to improve the student's chance for success. Students and their advisers are notified of these conditions. For example, students may be required to complete a specified number of credits and to earn a prescribed GPA during the single semester of their approved return.

## Morris Academic Alert

Morris Academic Alert provides communication, resources, and broad based support for student success. The Academic Alert program is coordinated by Morris Academic Affairs, Student Affairs, and the Scholastic Committee. Morris Academic Alert is designed to provide students who are not doing well in a course or courses and may be academically at risk with early information coupled with assistance to support the successful completion of their classes.

Faculty are encouraged to submit an academic alert when a student is earning below a C in a course, is missing class, failing tests or quizzes, or experiencing other difficulty with classes. Staff are also encouraged to submit alerts when students are having difficulty with other campus responsibilities such as missing work. Students and their

advisers are notified when alerts are received, with information on resources for support. The Morris Academic Alert Team coordinates additional support for students as needed, particularly when students are at risk in more than one course.

University of Minnesota policy requires instructors to provide mid-term alerts for all 1xxx-level courses for students who, on the basis of performance to date, appear in danger of receiving a grade of D, F, or N. Such notification will be provided no later than the seventh week of the class, and earlier if possible, to allow students to improve their classroom performance or withdraw by the eighth week. Instructors are encouraged to provide mid-term alerts for all other courses.

Morris Academic Alert allows faculty and staff to provide alerts at multiple times throughout the semester for greater support for students.

Academic alerts are not recorded on transcripts. The provision of academic alerts is a courtesy to the student. Failure to receive an alert does not create the right for a student to contest a grade in a course.

More information on Morris Academic Alert is available at [www.morris.umn.edu/academicalert/](http://www.morris.umn.edu/academicalert/).

## Exemption From Regulations

The Scholastic Committee acts on exceptions to requirements in the General Education Requirements (GER) and to policies governing grading, cancel/add, and credit limits. For exceptions in the major, students should consult discipline faculty.

## Academic Grievance Procedures

Students with complaints about an instructor or criticisms about course content, procedures, or grading should, in almost all instances, bring the matter directly to the instructor. Where this is clearly inappropriate or when such action does not bring about a mutually satisfactory solution, the student should take the problem to the chairperson of the division administratively responsible for the course (see the [Academic Division Structure](#) section). The chairperson will attempt to resolve the matter informally. Grievances involving an instructor's judgment in assigning a grade based on academic performance may be resolved only through this informal resolution procedure. Student academic complaints regarding the University's provision of education and academic services affecting their role as students must be based on a claimed violation of a University rule, policy, or established practice and should first involve an attempt to resolve the matter informally. Decisions of the division chairperson can be appealed to the vice chancellor for academic affairs and dean. There will be no appeals beyond the vice chancellor for academic affairs. Students may bring academic complaints regarding the University's provision of education and academic services affecting their role as students. Such complaints must be



based on a claim that there has been a violation of a University rule, policy, or established practice. Morris procedures for handling student academic complaints are available through the Morris Office of the Vice Chancellor for Academic Affairs and Dean. Resolution of complaints under this policy may include reinstatement or corrective action for the benefit of the student, including refunds, but may not award monetary damages or direct disciplinary action against any employee of the University. Other issues, such as concerns related to University employment and University admissions decisions, do not fall under the student academic complaints policy. This policy does not limit the University's right to change rules, policies, or practices related to the provision of academic services and education.

## Equal Opportunity

The University of Minnesota shall provide equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression.

Inquiries regarding compliance may be directed to:

**U of M Office of Equal Opportunity and Affirmative Action**

274 McNamara Alumni Center, 200 Oak Street S.E.  
Minneapolis, MN 55455  
612-624-9547  
Website: [www.eoaffact.umn.edu](http://www.eoaffact.umn.edu)

-or-

**Morris Office of Human Resources/Equal Opportunity and Affirmative Action**

306 Behmler Hall, 600 East 4th Street  
Morris, MN 56267  
320-589-6024  
Website: [www.morris.umn.edu/services/hr/EqualOpportunity.html](http://www.morris.umn.edu/services/hr/EqualOpportunity.html)

Students may seek confidential assistance from student counseling:

**Student Counseling**

235 Behmler Hall, 600 East 4th Street  
Morris, MN 56267  
320-589-6060

Faculty and staff may seek confidential assistance from the University of Minnesota Employee Assistance Program:

**U of M Employee Assistance Program (EAP): The Sand Creek Group, Ltd.**

651-430-3383 or 888-243-5744

Please contact Morris Campus Police immediately at 320-589-6000 if a crime has been committed.

## Disability Accommodation

Student disability accommodations are coordinated through Disability Resource Center in the Office for Academic Success, see page 53.

For faculty, staff, and other disability accommodations or to request these materials in alternative formats, please contact Morris Office of Human Resources/Equal Opportunity and Affirmative Action, 306 Behmler Hall, 600 East 4th Street, Morris, MN 56267, 320-589-6024.

The Director of the Office for Academic Success/Disability Resource Center Director serves as UMM's Americans With Disabilities Act (ADA) Compliance Officer, 362 Briggs Library, 320-589-6178 or [dsoaac@morris.umn.edu](mailto:dsoaac@morris.umn.edu).

## Bias, Discrimination, Harassment

When a member of the UMM community experiences or becomes aware of a possible bias-related incident, discrimination, or harassment, the University of Minnesota will provide support and address those actions within our community. University policy and procedures are as follows:

- U of M Policy, Equal Opportunity and Affirmative Action Policy and Directives:  
[diversity.umn.edu/eoaa/?q=policiesanddirectives](http://diversity.umn.edu/eoaa/?q=policiesanddirectives)
- UMM Procedure, Reporting and Responding to Bias Incidents and Hate Crimes:  
[www.morris.umn.edu/hr/equalopportunity/incidents/](http://www.morris.umn.edu/hr/equalopportunity/incidents/)
- UMM Procedure, Responding to Harassment/Discrimination Claims:  
[www.morris.umn.edu/hr/equalopportunity/claims/](http://www.morris.umn.edu/hr/equalopportunity/claims/)

## Sexual Misconduct

The University prohibits all forms of sexual harassment, sexual assault, stalking, and relationship violence and provides comprehensive support and reporting mechanisms for all members of the community. University policy and procedures are as follows:

- U of M Policy, Equal Opportunity and Affirmative Action Policy and Directives:  
[diversity.umn.edu/eoaa/?q=policiesanddirectives](http://diversity.umn.edu/eoaa/?q=policiesanddirectives)
- UMM Procedure: Sexual Assault/Relationship Violence Policy and Procedures:  
[www.morris.umn.edu/services/ViolencePrevention/policyprocedures.html](http://www.morris.umn.edu/services/ViolencePrevention/policyprocedures.html)

## Title IX Compliance

Title IX is a federal law\* that states: "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance."

- Title IX forbids sex discrimination in access to or delivery of any university student service or academic and non-academic program.

- Title IX forbids sex discrimination in all recruitment and employment decisions and actions.
- Title IX protects all students from sexual harassment connected to any university program, service or activity regardless of location and/or by any university employee, another student or a non-employee third party.

Services, programs and activities include, but are not limited to, admissions, financial aid, academic advising, housing, athletics, recreational services, extracurricular opportunities, classroom assignments, grading, discipline, and co-curricular offerings.

Title IX inquiries should be directed to:

**Office of Equal Opportunity and Affirmative Action**

Title IX Coordinator for the University of Minnesota  
274 McNamara Alumni Center, 200 Oak St. SE, Mpls, MN 55455

Phone: 612-624-9547 or email: [boyd0009@umn.edu](mailto:boyd0009@umn.edu)

**UMM Office of Human Resources: Equal Opportunity**

Title IX Liaison for the University of Minnesota, Morris  
306 Behmler Hall, 600 East 4th Street, Morris, MN 56267

Phone: 320-589-6024 or email: [mattsosj@morris.umn.edu](mailto:mattsosj@morris.umn.edu)

## Student Code of Conduct, Academic Integrity, and Disciplinary Procedures

All students are expected to abide by the University of Minnesota Student Code of Conduct adopted by the Board of Regents. The Student Conduct Code is based in the following guiding principles:

- The University seeks an environment that promotes academic achievement and integrity, that is protective of free inquiry, and that serves the educational mission of the University.
- The University seeks a community that is free from violence, threats, and intimidation; that is respectful of the rights, opportunities, and welfare of the students, faculty, staff, and guests of the University; and that does not threaten guests of the University; and that does not threaten the physical or mental health or safety of members of the University community.
- The University supports and is guided by state and federal law while also setting its own standards of conduct for its academic community. The University is dedicated to the rational and orderly resolution of conflict.

The Student Conduct Code specifically prohibits scholastic dishonesty; disruption of the academic environment; falsification; refusal to identify and comply; attempt to injure or defraud; harm to person; bullying; sexual assault; disorderly conduct; illegal or unauthorized possession or use of weapons; illegal or unauthorized possession or use of drugs or alcohol; providing alcohol to minors; unauthorized use of University facilities and services; theft, property damage, or vandalism; unauthorized access; disruptive

behavior; hazing; rioting; violation of University rules; violation of federal or state law; and persistent violations.

Any alleged violation of the student conduct code is a matter of concern to the University. The University of Minnesota, Morris has a campus-wide disciplinary process, managed by Office of the Vice Chancellor for Student Affairs and the Student Behavior Committee (SBC), a subcommittee of the Student Affairs Committee, that handles most complaints under the Student Conduct Code. Allegations of individual or group misconduct may be reported by the Campus Police, University departments, individual students, faculty/staff, campus guests, or others. University of Minnesota student conduct processes emphasize student development through understanding and accepting responsibility for personal behavior, while protecting community interests and due process. Students and student organizations found responsible for disciplinary offenses under the Student Conduct Code are subject to sanctions (i.e., warning, probation, required compliance, restriction of privileges, university housing suspension, suspension, expulsion). Factors considered in determining appropriate sanctions are outlined in the code.

The student conduct code and related UMM procedures are available on the One Stop Student Services Safety and Emergency webpage, [onestop.morris.umn.edu/safety/](http://onestop.morris.umn.edu/safety/) and the UM policy library, [www.policy.umn.edu](http://www.policy.umn.edu).

## Student Behavior Committee Disciplinary Action

On the Morris campus, formal disciplinary action is the responsibility of a faculty-student committee of the Campus Assembly. The constitution of the University of Minnesota, Morris makes explicit the role of the Student Affairs Committee in oversight, consistent with the Regents policy, of student conduct processes on the Morris campus. A nonvoting administrative secretary is appointed by the chancellor, with judicial processes managed through the Vice Chancellor for Student Affairs.

## Administrative Disciplinary Action

It is desirable that some instances of student misconduct be settled directly within the appropriate administrative unit. These persons and agencies investigate allegations of misconduct and work with the concerned parties to reach an administrative resolution of the dispute whenever possible. The student has the right to request a formal hearing regarding the issue with the Student Behavior Committee.

## Student Academic Integrity

Scholastic honesty is of fundamental importance to the functioning of any community of scholars. Although the pursuit of knowledge is always a communal project, individual academic achievement must be the result of a person's own efforts and abilities. Members of an academic community are responsible for their own personal and academic development and for fostering an academic climate in which all members draw from and give back to the community. The University is charged with implementing those policies that will help bring about such an academic climate. However, the ultimate responsibility for creating a community of scholars, in which mutual self-respect flourishes, lies with the individual members of the community. Each member must, therefore, act according to the highest standards of academic honesty.

Academic honesty entails producing original work, accurately attributing authorship, and acknowledging the work of others, including the work of collaborators, when appropriate. Academic honesty extends to behavior that supports the academic honesty of others. The integrity of an academic community demands that students and faculty alike display honesty, trust, fairness, respect, and responsibility.

The maintenance of academic integrity is a joint student and faculty responsibility. The procedures in the link below apply to all academic work pursued at the University, including work submitted to fulfill course requirements (both in- and out-of-class work), as well as independent academic endeavors. These include but are not limited to in-class examinations, quizzes, tests, laboratory tests, reports, laboratory reports, "take-home" examinations, research projects, papers, art work, internships, and assistantships.

It is incumbent upon course instructors assigning work to be submitted in fulfillment of course requirements to explain, either verbally or in the course syllabus, what constitutes academic dishonesty and plagiarism. Any special conventions regarding quotation, paraphrasing, footnoting, use of outside materials, collaboration, and related matters shall be carefully explained by the instructor.

Allegations of scholastic dishonesty are usually first raised by the affected instructor and are often resolved simply by the assignment of a grade or other academic consequence in the class and the acceptance of that grade or consequence by the student. Instructors should report all cases of scholastic dishonesty to the Office of the Vice Chancellor for Student Affairs, even if the matter is resolved.

The student conduct code and related UMM procedures are available on the One Stop Student Services Safety and Emergency webpage, [onestop.morris.umn.edu/safety](http://onestop.morris.umn.edu/safety) and the UM policy library, [www.policy.umn.edu](http://www.policy.umn.edu).

Procedures for academic integrity violations are available at [policy.umn.edu/Policies/Education/Student/STUDENT\\_CONDUCTCODE\\_PROC03.html](http://policy.umn.edu/Policies/Education/Student/STUDENT_CONDUCTCODE_PROC03.html).



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## Academic Information

Morris is committed to providing as many learning opportunities for students as possible. The faculty are dedicated not only to teaching, but also to research, writing, creative work, and involvement in state, regional, national, and international professional organizations. Many encourage student collaboration on research projects, and Morris students may have opportunities to coauthor scholarly articles or papers with faculty.

Morris offers 33 majors as well as areas of concentration (self-designed majors), interdisciplinary, and preprofessional programs. Programs and courses in education, the humanities and fine arts, the social sciences, and science and mathematics provide an excellent background for any major. Students can complement their coursework through the Honors Program, study abroad, internships, field trips, and directed studies. In addition, many lectures, concerts, films, and special programs are offered on campus to enhance the educational experience.

Helping students make the most of their education is Morris's primary goal. Morris's programs challenge students to think critically, make decisions wisely, develop their creativity, and increase their awareness of the world around them.

### Program Planning

Students are responsible for planning programs that will satisfy their own educational and professional goals. Academic advisers, faculty, Career Center, Student Counseling, and Academic Advising staff are available to assist with program planning, and students should seek this assistance to assure well-organized and balanced programs of study as well as to avoid planning errors.

This catalog was published in spring 2015. Links to the most current information about major requirements and courses can be found in the online catalog at [www.catalogs.umn.edu/morris](http://www.catalogs.umn.edu/morris).

### Credits

Information on workload expectations assists students in understanding the necessary time to allocate for their courses. Outlining workload expectations also allows for greater consistency across the curriculum, as well as identifies areas where the expectations are not necessarily applicable due to the nature of the course being taught. This is outlined in the University policy, "Instructional Time per Course Credit" at [www.policy.umn.edu/Policies/Education/Education/INSTRUCTIONALTIME.html](http://www.policy.umn.edu/Policies/Education/Education/INSTRUCTIONALTIME.html) and Directed Studies, Directed Readings, and Directed Research at [www.policy.umn.edu/Policies/Education/Education/DIRECTEDSTUDY.html](http://www.policy.umn.edu/Policies/Education/Education/DIRECTEDSTUDY.html)

Each credit represents an average of three hours a week of a student's time and effort, with one hour in class, two hours

of preparation, or three hours of laboratory work, for example.

**Class Level.** A student with fewer than 30 completed credits is classified as a freshman; 30 to 59 completed credits, a sophomore; 60 to 89 completed credits, a junior; 90 completed credits or more, a senior.

**Promoting Timely Graduation.** At least 120 credits are required for graduation. Students must complete at least 15 credits per semester on average to graduate within four years. The University expects most undergraduate students to complete their degree within four years. The complete policy is at

[www.policy.umn.edu/Policies/Education/Education/TIMELYGRADUATION.html](http://www.policy.umn.edu/Policies/Education/Education/TIMELYGRADUATION.html)

### Maximum Credits for Registration

The maximum number of credits per semester for which a student is allowed to enroll without approval is 20. The registrar's approval is required for a student to enroll for more than 20 credits in a semester. If the request is denied, the student may appeal to the Scholastic Committee.

### APAS—Academic Progress Audit System

The Academic Progress Audit System (APAS) is a tool for both students and advisers. The report provides progress information towards general education requirements, majors or major/minor requirements, and degree completion. Students cannot graduate until all degree requirements listed on APAS are completed. APAS is the "Document of Record" used to certify completion of the degree. Students are encouraged to review their APAS online:

- prior to registering to review which requirements need to be completed;
- after registering to confirm that new classes meet requirements;
- when grades are posted to review courses counting toward graduation;
- to explore majors by using the "what if" option;
- to regularly confirm graduation requirements are completed, especially during the senior year.

APAS reports and information on how to read them are available online at [www.morris.umn.edu/registrar/apas/](http://www.morris.umn.edu/registrar/apas/).

### Graduation Planner

Graduation Planner is an online academic planning tool that allows students to explore degree requirements, plan courses, and create customized plans that help them stay on track for graduation. Advisers are able to view student plans and provide feedback. The goal of Graduation Planner is to simplify the degree planning process and stimulate meaningful interaction with advisers.

The Graduation Planner works together with APAS to help students plan for graduation in a timely manner and to

explore a variety of majors, minors, and/or licensure programs. Information about the Graduation Planner can be found at [plan.umn.edu/](http://plan.umn.edu/).

## Schedule Builder

Schedule Builder is available to create customized class schedules for use during registration. The program takes into account desired courses, personal preferences, and a target number of credits. It works with Graduation Planner to assist students with timely graduation.

## Student Academic Support

The Student Academic Support offices and services at Morris are dedicated to promoting academic development, enrichment, and success for Morris students beginning when students commit to Morris and continuing beyond graduation. The coalition of offices are physically located near each other to encourage student interaction with each. These offices include:

- The Office of Academic Success, which includes the Academic Assistance Center, Disability Resource Center, Academic Advising, and Retention;
- Academic Center for Enrichment (ACE)
- Career Services

## Office of Academic Success

362 Briggs Library  
320-589-6178

The Office of Academic Success (OAS) promotes educational equity, access, and excellence. The staff are dedicated to helping students identify and achieve their academic goals. The office provides a range of academic assistance programming as well as disability resources, accommodations, and support. OAS is also a resource for faculty concerned about students who may be having trouble finishing graduation requirements, thinking about transferring or dropping out of college, or other issues that may impact success. All services are provided to enrolled students at no additional fee.

For more information, visit the Office of Academic Success website [www.morris.umn.edu/academicsuccess](http://www.morris.umn.edu/academicsuccess)

## Academic Assistance

The Academic Assistance (AA) Office provides academic support to enhance success for all students. Programs are available free of charge to all students at Morris.

The office collaborates with various disciplines to provide peer tutors for many courses offered at Morris. The program also offers drop-in study rooms, appointment based tutoring, Peer Assisted Learning study groups, and individual academic consultation and counseling. Staff also instruct the Mastering Skills for College Success course, which teaches efficient academic strategies.

## Disability Resource Center

The goal of the Disability Resource Center is to ensure that students have access to all learning opportunities. Students with disabilities receive personal attention and are accommodated based on their individual academic needs. The Disability Resource Center staff provides support for students with physical as well as various learning, health-related, cognitive, autism/Asperger, and/or psychological disabilities. Disability Resource Center staff work with students to ensure that they receive appropriate accommodations and learn self-advocacy skills.

Students with disabilities are accommodated through a variety of means such as alternate print formats, alternate testing, note-takers, building orientation, classroom relocation, technology, priority registration, sign language interpreters, and books in audio format.

Students with disabilities are responsible for providing documentation and requesting accommodation far enough in advance for accommodations to be made. For more information, visit the Disability Resource Center website [www.morris.umn.edu/academicsuccess](http://www.morris.umn.edu/academicsuccess).

## Academic Advising

362 Briggs Library  
320-589-6010

The mission of the Academic Advising program is to promote and support student learning by providing opportunities for personal and academic growth through quality activities and resources for both students and faculty. Advising by faculty is considered an integral part of Morris's central mission. Connections between students and faculty outside the classroom contribute to a successful educational experience.

Academic Advising is responsible for coordinating the advising program. Adviser assignments are based on students' particular needs and academic interests. Faculty advisers help with academic planning, encouraging students to pursue their interests within the liberal arts. First- and second-year students are required to discuss their course selections with their advisers each semester. Students must prepare an academic plan: freshmen for their sophomore year and sophomores for their final two years. Advisers can help students enhance their college experience by clarifying academic goals, talking through ways to meet requirements, and considering the effects of their choices on preparing for a career or graduate school. Students also work with advisers to plan academic enhancement opportunities such as study abroad, internships, and research projects. For more information, visit [www.morris.umn.edu/academic/advising](http://www.morris.umn.edu/academic/advising).

Advisers have expertise in helping students plan their general education requirements and courses for the major. They can provide important information about career preparation or further study. Students are encouraged to

change advisers as their interests change. For more information on how to change advisers, stop by the Academic Advising Office, Monday through Friday, 8:00 a.m. to 4:30 p.m.

It is common for students to begin college with an “undecided” major or for students to change majors/minors throughout their academic career at Morris. Academic Advising assistance is available through individual appointments, Academic Advising’s online programs, Career Services resources, and interest inventories available through Student Counseling. Students are also strongly encouraged to discuss academic and career options with their academic adviser.

## Career Services

110 Library  
320-589-6065

Career Services offers a variety of career planning, field experience education, and job and graduate/professional school transition services. These services are available to both current students and alumni who need assistance in establishing career planning and job search strategies.

Career planning activities offer the opportunity to evaluate skills, values, and interests that affect career decision making. Career planning may include personal counseling, exploring the Career Resource Library, occupational testing, and participation in life/work planning, career fairs, and outreach groups.

Field experience education at Morris is offered through an internship program. Internships provide the opportunity to earn credit for study and work in one’s chosen field. Morris has established internships in business, counseling, public relations, television and radio production, social work, public administration, computer programming, education, scientific research, and many other fields.

Career transition services assist students and alumni in seeking employment or admission to graduate or professional schools. These services include providing information about job vacancies in education, government, business, and industry; arranging on- and off-campus interviews between employers and candidates; collecting and maintaining current information about salary and employment trends; and offering assistance with résumé and letter writing, job search, and interviewing techniques.

For more information, visit [www.morris.umn.edu/services/career](http://www.morris.umn.edu/services/career).

## The Academic Center for Enrichment

5 Student Center  
320-589-7014

The Academic Center for Enrichment (ACE) offers guidance and information for students interested in expanding their academic and intellectual experiences beyond the traditional classroom. The ACE office coordinates the following enrichment programs: study abroad, honors, national scholarships, National Student Exchange, and many of Morris’s undergraduate research opportunities. All Morris students are eligible to participate in these academic enrichment activities and the ACE office works to increase student awareness of these opportunities. Students who are Morris Scholars work with the ACE staff to explore opportunities that are supported by their stipends. The ACE office is staffed by faculty advisers who are available to answer student questions and help students identify which enrichment programs fit their interests. For more information on any of the programs below, visit the ACE website at [www.morris.umn.edu/ACE](http://www.morris.umn.edu/ACE).

### Honors Program

The Honors Program is an opportunity for Morris students to pursue an interdisciplinary curriculum and work toward graduation “with honors.” All Morris students are eligible to participate in the Honors Program. Typically, students apply to the program in the spring semester of their freshman year and begin coursework in their sophomore year, but other timetables are possible. While everyone may apply, academic success in the fall semester, faculty recommendations, and a short essay may be used to limit admission to those students with the proven motivation and likely ability to succeed in the program. Applications are available at the Academic Center for Enrichment, 5 Student Center. Students wishing to register for an honors course must be enrolled in the Honors Program. If seats remain in an honors course at the end of registration, non-honors students may enroll with the permission of the instructor.

To graduate with honors, participants must 1) complete IS 2001H—Honors: Traditions in Human Thought, usually in the fall of their sophomore year; 2) complete 8 elective credits in the Honors Program at Morris; 3) successfully complete an interdisciplinary honors capstone project; and 4) have an overall Morris GPA of 3.50 or higher upon graduation. To qualify for a degree with honors, a student must have completed 60 or more semester credits at the University. One Honors course may be taken S-N with pre-approval from the Director of Honors. A student may petition the Director of Honors to transfer up to two honors credits earned at another institution as elective credits in the Morris Honors Program.

Honors courses are limited to a class size of 15. The elective courses examine a particular topic from an interdisciplinary



perspective. The courses are often team-taught by faculty from different Morris academic divisions and concern subjects of special interest to the faculty who design them. Two of the 8 required honors elective credits may be earned through an Honors Co-Curricular Independent Project (IS 3991H). This is an interdisciplinary, independent project related to a unique co-curricular opportunity such as study abroad, an internship, or mentored research. Students pursuing this option must secure pre-approval from the Director of Honors and the Dean before embarking upon the proposed project.

The honors capstone project is a substantial scholarly or creative work that demonstrates students' intellectual engagement and their ability to articulate and defend their choices regarding methodology and subject matter before a panel of three faculty members from different disciplines, including the project's adviser. It is the responsibility of the student to secure a project adviser, identify two other faculty panelists in consultation with the project adviser, and register for at least two credits of IS 4994H—Honors Capstone Project. The project defense must occur before the end of the last week of classes in a given semester.

### **National, International, and All-University Scholarships and Fellowships**

Morris encourages eligible students to apply for prestigious national scholarships, including the Rhodes, Fulbright, Truman, Marshall, Mellon, National Security Educational Program (NSEP), Gates-Cambridge, Jack Kent Cook, Udall, and others. These academic scholarships cover a wide range of fields and assist in the pursuit of graduate and/or professional study as well as career development. They also typically carry a generous stipend or financial award. Public information sessions are periodically held on campus for students to learn more about these scholarships, including eligibility requirements and application procedures. A team of faculty and staff advisers mentors students in the complex and highly competitive application process.

### **National Student Exchange**

Morris is a member of the National Student Exchange (NSE). NSE is an undergraduate exchange program within the United States, Canada, Guam, Puerto Rico, and the U.S. Virgin Islands. With nearly 200 colleges and universities participating in NSE, students have a wide variety of courses, programs, facilities, and environments to meet diverse academic and personal needs and interests. Students may participate in an exchange with another NSE college or university for a semester or a year.

### **Study Abroad**

Morris is committed to preparing students to become global citizens and to deepening their understanding of world issues. Because firsthand knowledge of other societies and

cultures builds international awareness, Morris encourages students to study abroad as part of their academic program. The ACE office and study abroad adviser provide international study, work, and travel information for students. In addition to consulting with ACE advisers and reviewing guides on foreign study and travel, students are encouraged to meet with the study abroad faculty adviser in their major to discuss study abroad options relevant to specific disciplines.

As a part of the University system, Morris students have access to an especially broad range of programs all over the world. These programs are offered by Morris (both short-term programs led by faculty and international exchange programs with foreign universities), other campuses of the University, and other colleges and universities nationwide. Most Morris federal and state financial aid is available for study abroad and scholarships are offered by the University and nationally specifically targeted for study abroad.

### **Undergraduate Research Opportunities Program (UROP)**

The Undergraduate Research Opportunities Program (UROP) is a competitive, merit-based program throughout the University of Minnesota that offers financial awards to undergraduates for research, scholarly, or creative projects undertaken in partnership with a faculty member. Students may apply for awards twice a year. UROP awards include stipends (up to \$1,400) and expense allowances (up to \$300). All full-time undergraduates at Morris are eligible to apply. All Morris faculty may serve as UROP sponsors.

### **Undergraduate Research Symposium**

The ACE Office helps organize Morris's Undergraduate Symposium (URS) a one-day, all-campus conference held each spring during which students from across the campus are invited to present their original research, creative and scholarly work for their peers and the wider community. All Morris students are eligible to participate and acceptance into the symposium is competitive.

### **Morris Academic Partners (MAP)**

Morris has established a program for advanced students called Morris Academic Partners (MAP). Receiving a stipend, Morris Academic Partners undertake assignments that enhance their intellectual competence and increase their interest in graduate or professional study. Projects involve assisting faculty and professional staff in their research and/or teaching and are more complex than typical work-study assignments. Faculty members apply for the MAP and select student partners entering their third year of study who meet the eligibility requirements. Information about the MAP program may be obtained by contacting the Office of the Vice Chancellor for Academic Affairs and Dean, 315 Behmler Hall; 320-589-6015; [pedersdk@morris.umn.edu](mailto:pedersdk@morris.umn.edu); or

online at  
[www.morris.umn.edu/services/acad\\_affairs/mapguide.html](http://www.morris.umn.edu/services/acad_affairs/mapguide.html).

## Morris Student Administrative Fellows

The Morris Student Administrative Fellows program is designed to enable academically talented, qualified students to assist administrative or faculty offices with administrative and managerial projects. Students undertake assignments intended to enhance their intellectual competence and increase their interest in graduate or professional study. The program pays a stipend directly to the student's financial aid account. Further information about the Morris Student Administrative Fellows program may be obtained by contacting the Office of the Vice Chancellor for Academic Affairs and Dean, 315 Behmler Hall; 320-589-6015; [petersdk@morris.umn.edu](mailto:petersdk@morris.umn.edu); or online at [www.morris.umn.edu/services/acad\\_affairs/MSAF\\_Guidelines.html](http://www.morris.umn.edu/services/acad_affairs/MSAF_Guidelines.html).

## Multicultural Mentorship Program

The Multicultural Mentorship Program is an opportunity for second-year students from underrepresented backgrounds or students who are working on a project that focuses on social justice issues or intercultural competence. Students selected for MMP work with Morris faculty and/or staff on a year-long project and/or research endeavor. A yearly stipend of \$1,000 (paid in two installments at the end of each semester) is awarded to selected students for work supervised by their mentors. Further information about the Multicultural Mentorship Program may be obtained from the Multi-Ethnic Student Program Office, 110 Multi-Ethnic Resource Center.

## Directed Study and Internships

The term "directed study" refers to those on- or off-campus learning experiences individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum. Directed study courses (with 1993, 2993, 3993, or 4993 course numbers) should be arranged before the term begins, but may be added to the registration later up to and including the last day of classes. While registration can occur later in the term, note that the financial aid deadline for awarding aid based upon enrolled credits is the 10th class day of the term. Morris sets the maximum credit limit per student for directed studies at 10 credits. An "internship" is a supervised opportunity to apply academic learning at a field site. It is arranged between a student, an on-site supervisor, and a University faculty member. Morris sets the maximum credit limit per student for internships at 32 credits. For more information about finding an internship, contact the Career Center at 320-589-6065. Directed study and internship offerings include the following courses:

**Discipline Directed Study**—1993, 2993, 3993, 4993 (1–5 cr per semester)

**Interdisciplinary Directed Study**—IS 1993, 2993, 3993, 4993 (1–5 cr per semester)

**Helping Profession Internship**—IS 3796 (1–16 cr per semester)

**Interdisciplinary Internship**—IS 3996 (1–16 cr per semester)

**Prior Learning Directed Study**—IS 3893 (1–4 cr per semester)

**Prior Learning Internship**—IS 3896 (1–16 cr per semester)

A special *Directed Study Approval* form or *Internship Approval* form and *Learning Contract* are required for registration. These forms, available at the division offices or online, essentially establish a contract between the student and the supervising faculty member. The contract includes a statement of the objectives of the project, the methods to be employed, and the procedures for evaluating the project. In addition to faculty evaluation, student evaluation of the project is mandatory. When the work of the project is completed, the faculty member will provide the student with an evaluation questionnaire, which is part of the approval form. The student completes the questionnaire and delivers it to the Office of the Vice Chancellor for Academic Affairs and Dean. The faculty member may not submit a grade until the student's evaluation of the project has been completed.

## May Session

May session is a three-week term—scheduled after spring semester ends—that is part of summer academic programs at Morris. It is designed to offer unique courses especially suited to a short, intense time frame. Courses include, but are not limited to, short-term domestic and international study programs; topics that are innovative, experimental, interdisciplinary, and examined in greater depth; or special internships. Course offerings and enrollment requirements are determined by the Morris Summer Session Office.

## Majors Offered

The University of Minnesota, Morris offers the following majors:

- American Indian Studies
- Anthropology
- Art History
- Biology
- Chemistry
- Communication, Media, and Rhetoric
- Computer Science
- Economics
- Elementary Education
- English
- Environmental Science
- Environmental Studies
- French
- Gender, Women, and Sexuality Studies
- Geology
- German Studies
- History

Human Services  
 Latin American Area Studies  
 Management  
 Mathematics  
 Music  
 Philosophy  
 Physics  
 Political Science  
 Psychology  
 Social Science  
 Sociology  
 Spanish  
 Sport Management  
 Statistics  
 Studio Art  
 Theatre Arts

Specific requirements for Morris majors are listed in the Academic Division Structure and Program and Course Descriptions sections of this catalog. Completion of a given major, however, usually involves fulfillment of more than the minimum requirements. Once a student has selected a major, she or he should seek the counsel of a faculty member in the discipline to plan a well-organized and balanced program.

Often students enter college undecided about their major. General education requirements, many of which are completed during the first two years, introduce students to disciplines from which they choose a major.

### Individualized Majors (“Areas of Concentration”)

Students may choose to complete an area of concentration. This is an individualized, often interdisciplinary, group of courses that meets the requirements for a major. Examples of previously approved areas of concentration include: actuarial science, American studies, animal behavior, art therapy, biostatistics, digital media studies, forensic science-biochemistry emphasis, forensic science-biology emphasis, forensic science-chemistry emphasis, international studies, world languages, and peace studies. Students must fill out the appropriate forms and request final approval. Area of concentration forms are available online at [www.morris.umn.edu/services/acad\\_affairs/aavarious.html#area\\_concentration](http://www.morris.umn.edu/services/acad_affairs/aavarious.html#area_concentration).

### Teacher Education

The requirements for teacher education programs are listed in the Academic Division Structure and Program and Course Descriptions sections of this catalog. These programs are selective. An admission process must be completed for entry into either the elementary or secondary education programs. Students who intend to pursue licensure as an elementary or secondary school teacher should contact the Division of Education as early as possible in their college career.

Both education programs are state and nationally accredited. They follow a model in which students progress through coursework and field experiences as a cohort. Programs are highly interactive and reflective. They emphasize the integration of theory and practice, leadership, diversity, and technology. State and national standards are met through developmental, constructive, and collaborative programs.

## Preparation for Professional Degrees in Other Colleges

Undergraduate liberal arts coursework is required for admission to professional schools in fields such as engineering, pharmacy, law, and medicine. Students on the Morris campus have the opportunity to complete a broad range of liberal arts courses that prepares them to apply for admission to various professional schools at the University of Minnesota and other prestigious universities across the nation.

Morris advisers work with students on a regular basis to plan an academic program that supports the student’s academic interests and goals. The Academic Advising Office provides detailed guides to preparatory coursework at Morris that is recommended by the University of Minnesota professional schools. In addition, professional school catalogs, the best source of information about requirements, are available online at [www.catalogs.umn.edu](http://www.catalogs.umn.edu).

It is recommended that students who intend to apply for professional programs at the bachelor’s degree level complete the Morris degree requirements. Many students change their educational objectives during the course of study in preparation for a professional school, in which case the credits earned can be applied toward Morris graduation requirements. Admission to professional programs is highly competitive and applicants may be competing against others who have already earned bachelor’s degrees or have at least three years of preparation before they apply. Simply completing the minimum preparation requirements does not guarantee admission.

Students are urged to consult the catalog of the professional school they plan to attend for information about the admission requirements, application deadlines, and procedures. Most professional schools require a minimum GPA, a satisfactory score on a standardized aptitude test, and letters of recommendation. Online and self-study courses related to the health sciences offered through the University of Minnesota, Twin Cities are also available to Morris students.

Morris offers preparatory coursework for the following professional schools of the University of Minnesota. Note that most programs require students to complete their bachelor of arts degree prior to applying.

Dentistry  
 Engineering

Law  
 Medicine  
 Nursing  
 Pharmacy  
 Physical Therapy  
 Physician Assistant  
 Veterinary Medicine

## Dentistry

Students planning to earn the doctor of dental surgery degree at the School of Dentistry on the Twin Cities campus must complete a minimum of 87 semester credits in a liberal arts curriculum emphasizing biology, chemistry, organic chemistry, biochemistry, mathematics, physics, and applied psychology for admission to the professional program. The majority of students entering the program have completed four or more years of college and a bachelor's degree. Admission is very competitive. The average entering GPA for the 2013 class was 3.63 (overall) and 3.57 (science-based courses). Specific requirements can be viewed at [www.dentistry.umn.edu/](http://www.dentistry.umn.edu/).

Students seeking admission to the School of Dentistry must apply through the Associated American Dental Schools Application Service (AADSAS) by December 1. Information and registration for the Dental Admission Test (DAT) are available online at [www.ada.org](http://www.ada.org). Scores from the DAT are required as part of the application and must be submitted to the School of Dentistry by December 1 of the academic year preceding the fall term in which enrollment is sought. The supplemental School of Dentistry application deadline is also December 1 and the application is available in early June. Applications are considered on a rolling basis, so students are encouraged to apply early.

## Engineering

Students at Morris can pursue the study of engineering programs including aerospace and mechanics, biomedical, biobased products and biosystems, chemical, civil, computer, electrical, environmental, geoengineering, industrial and systems, materials science, and mechanical through any of three established paths. 1) A dual-degree program, formally arranged with the University of Minnesota, Twin Cities (UMTC), provides the opportunity for students to earn a bachelor of arts from Morris and a bachelor of science degree from the UMTC. 2) A pre-engineering curriculum option allows students to attend Morris for two years, taking the mathematics, chemistry, physics, computer science, and composition courses required in engineering programs and then transfer to UMTC. 3) Students considering an advanced degree in engineering can complete a bachelor of arts degree in one of the sciences at Morris and then enroll in a graduate engineering program at UMTC or elsewhere. Each of these options is described below.

## Dual-Degree Program

Students in the dual-degree program take courses for three years at Morris and two years from the College of Science and Engineering (CSE) on the Twin Cities campus. While at Morris, students can major in mathematics, physics, chemistry, or statistics; choose electives; and complete the Morris general education requirements. Students then apply for transfer to CSE. Admission is based on completion of appropriate courses and the student's technical GPA which is calculated from grades in math, chemistry, computer science, calculus-based physics and calculus-based statistics. Most successful applicants to CSE have a 3.2 GPA or higher. Each student should work closely with a faculty adviser to identify which Morris major and CSE engineering program best fit together to match the student's interests and specific program requirements. Students who successfully complete the program earn a bachelor of arts degree from Morris and a bachelor of science degree from CSE.

## Pre-Engineering Program

The pre-engineering program is a well-articulated arrangement with the University of Minnesota College of Science and Engineering in which students attend Morris for two years, taking the core mathematics, physics, chemistry, computer science, and composition courses that are the standard preparatory courses for the CSE engineering programs. Since the course requirements do vary slightly from one engineering program to another, each student should work closely with a faculty adviser in the selection of both required and elective courses. (Many students choose electives that satisfy the general education requirements of both Morris and CSE so that they have the option of graduating from Morris rather than transferring.) After two years at Morris, students can transfer to CSE. Most successful applicants have a technical GPA of 3.2 or higher. Secondary factors include cumulative GPA and grade trends. Students can complete a bachelor of science in engineering within two to three years after their transfer.

## B.A./Graduate Degree Program

A bachelor of arts degree in one of the basic sciences is excellent preparation for a graduate degree in engineering. It is not necessary to have an undergraduate degree in engineering to enroll in an engineering graduate program either at the University of Minnesota or elsewhere. At the University of Minnesota, a student with a bachelor of arts in one of the basic sciences can usually complete a master of science in engineering in two years. A doctorate degree takes several more years.

## Law

A bachelor's degree is required for admission to law school, but no specific preparatory program or major is prescribed. Students are advised to plan a rigorous liberal arts bachelor's program that provides a broad background in the humanities, mathematics, sciences, and social sciences. Students should select an academic major based on their

special area of interest and abilities to ensure a depth and breadth of knowledge in one field. They are also encouraged to take courses that require independent thought and writing, including work in other languages, and to develop effective skills in oral and written expression through coursework or activities.

The University of Minnesota Law School is noted for its exceptional and accessible faculty and a highly competitive admissions process that results in highly credentialed students. A strong scholastic record and scores from the Law School Admission Test (LSAT) are key factors for admission. Various factors such as work experience; career goals; positions of leadership; racial, ethnic, or economic backgrounds; and public service are also considered.

All applicants must first register online with the Credential Assembly Service (CAS). The service acts as a repository for the student's application, academic transcripts, LSAT test scores, and letters of recommendation. Other required materials include a personal statement, a resume highlighting extracurricular activities and community service, and an application fee.

Applicants should register with the CAS and take the LSAT at least six weeks before the April 1 application deadline. Students are encouraged to apply as early as September 1; admission is on a rolling basis. Normally applicants take the LSAT in December of their senior year in college. LSAT/CAS information and applications are available in Student Counseling and online at [www.lsac.org](http://www.lsac.org).

## Medicine

Students planning to enter a school of medicine must complete a bachelor's degree before admission. Required premedical courses in the bachelor's degree program include biology, chemistry, physics, psychology, and sociology. The two Minnesota medical schools are the University of Minnesota Medical School in Minneapolis and the University of Minnesota Medical School in Duluth. Requirements of the various medical schools vary and change frequently. Admission is extremely competitive. First-year Morris premedical students should check the websites of the schools they are interested in and work closely with their faculty adviser and the Morris pre-medicine advising committee. Students who wish to enter medical school directly after graduating should begin application procedures for medical school during their junior year. Both Minnesota medical schools use the American Medical College Application Service (AMCAS). The AMCAS application should be submitted online between June 1 and November 15.

Medical school applicants are required to take the Medical College Admission Test (MCAT). Students must take the MCAT no later than September 30 of the year they wish to apply. Registration materials and more information about

MCAT can be found at [www.aamc.org/students/applying/mcat/](http://www.aamc.org/students/applying/mcat/) and at Student Counseling.

## Nursing

Students at Morris who are interested in a career in nursing have several options to consider when planning their academic programs. Nursing programs are highly competitive and differ in their prerequisite courses. Students should work with their advisers to ensure that they take the courses necessary to meet admission requirements.

### B.A./Graduate Degree Program

The School of Nursing at the University of Minnesota, Twin Cities (TC-SoN) offers a master of nursing (MN) degree. This full-time, 16-month/4 semester graduate-level program is designed for students with a baccalaureate (or higher) degree in a non-nursing field. The program includes all the essentials of a bachelor of science in nursing (BSN) program, plus additional graduate work. Upon completion of the program, students are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) and are also eligible for Public Health Nursing (PHN) certification in Minnesota. The MN program provides an excellent foundation for either the PhD in nursing or Doctor of Nursing Practice (DNP) degree at the School of Nursing. The School of Nursing is committed to ensuring that at least 10 Morris graduates who meet the admission requirements are considered for the program every year. Successful applicants have completed prerequisite courses in chemistry, human anatomy and pathology, microbiology, lifespan psychology, and statistics, combined with a strong liberal arts background.

## Pharmacy

Students planning to apply to the University of Minnesota College of Pharmacy (Twin Cities or Duluth) must complete specific general education coursework, including composition, biology, chemistry, mathematics, physics, economics, behavioral sciences, philosophy/ethics, and public speaking. A completed bachelor's degree is preferred (less than 20% of accepted students do not have a degree). Applicants who have a 3.0 overall PharmCAS GPA or a 3.2 GPA in their most recent 60 credits or earned a 70% composite PCAT score are eligible to apply. Students must also take the Pharmacy College Admission Test (PCAT) no later than January in the year they apply for admission. More information about the PCAT exam can be found at [www.pcatweb.info](http://www.pcatweb.info) and at Student Counseling.

The criteria used to evaluate and select applicants for admission include the student's previous coursework and GPA, PCAT scores, diversity factors, work experience, demonstrated leadership, oral and written communication skills, and letters of recommendation. Highly qualified candidates are then invited to campus for an interview prior to the admission decision.

Applicants to the program on either the Duluth or Twin Cities campuses must submit materials through PharmCAS and allow at least six weeks processing time. The PharmCAS national service is a repository for all application materials including transcripts, letters of reference, and PCAT scores. The supplemental application deadline is March 3.

Admission to the College of Pharmacy is selective and on a rolling basis. Priority is given to students who apply early because the class may fill much earlier than the supplemental application deadline.

## Physical Therapy

Students must complete a bachelor's degree (no major preferred) to be eligible for admission to the graduate level physical therapy program at the University of Minnesota, Twin Cities. While at Morris, students are encouraged to complete a strong liberal arts program. Required undergraduate coursework includes biology courses with labs, human anatomy, human physiology, chemistry with labs, physics with labs, general psychology, abnormal psychology, calculus, and statistics (including ANOVA and regression analysis). Past students also have found that biochemistry and human/animal biology classes have been helpful preparation. Students are also expected to be skillful with word processing applications and spreadsheets. Exposure to a physical therapy setting through volunteer work or employment (minimum 100 hours) is also an important prerequisite.

Admission is very competitive. Primary standards require a minimum GPA of 3.00 and all courses must be taken A-F grading. Students must take the GRE general exam and can find details online at [www.gre.org](http://www.gre.org). For more information, see [www.phyther.umn.edu](http://www.phyther.umn.edu) or contact Student Counseling.

## Physician Assistant

Physician assistants, also known as PAs, practice medicine on a team under the supervision of physicians and surgeons. They are formally educated to examine patients, diagnose injuries and illnesses, and provide treatment.

Students must complete a bachelor's degree (no major preferred) to be eligible for admission to a graduate level physician assistant program. Students are expected to have strong coursework in biology, chemistry, statistics, and psychology. Students are encouraged to strengthen their application with evidence of volunteer or work experiences in health care related roles such as a nurse's aide or emergency medical technician (EMT).

Students interested in being a PA should research the PA program details of schools they are interested in attending early in their undergraduate career as specific program requirements, deadlines, and required supplemental materials vary among schools. Students must also submit a separate online application, transcripts, letters of recommendation, and fees to the Centralized Application

Service for Physician Assistants (CASPA) which is due August 1. Further details can be found at [www.paeonline.org](http://www.paeonline.org).

## Veterinary Medicine

Admission to the College of Veterinary Medicine is highly competitive. Approximately 90 students are admitted each fall semester and are selected through an evaluation process including: 1) academic measures, such as GPA and VMCAS score; 2) non-academic measures, such as animal experience; and 3) a personal interview.

To qualify for admission to the College of Veterinary Medicine, students must complete required courses including English composition, biology, chemistry, mathematics, physics, and a strong liberal arts background. Most students complete their bachelor's degree before entering veterinary school but may seek admission during the academic year in which their pre-veterinary requirements are complete. Consultation with a Morris adviser is essential for proper course planning.

The University of Minnesota uses the national Veterinary Medical College Application Service (VMCAS) available online at [www.vmcas.org](http://www.vmcas.org). The deadline for submitting the VMCAS application occurs during the first week of October and applicants must include three letters of recommendation. The Graduate Record Examination (GRE) is also required for admission. Successful applicants for the fall 2013 class had a mean GPA of 3.59 and 102 students were admitted from the 961 applicant pool.

An early admission program to the College of Veterinary Medicine (VETFast) is available to qualified Morris freshmen interested in food animal medicine. Students should consult their adviser for details. Instructions and applications for VMCAS are available online at [www.cvm.umn.edu/education](http://www.cvm.umn.edu/education) and at Student Counseling.

## Honors and Awards

### University Honors

#### Graduation with Distinction or High Distinction

To qualify for a degree with distinction or high distinction, a student must have completed 60 or more semester credits at the University. For the purposes of meeting the grade point average standards, only University coursework will be counted. To graduate "with distinction," a student must have a cumulative GPA of 3.750 or higher at the time the student graduates. To graduate "with high distinction," a student must have a cumulative GPA of 3.900 or higher. The GPA alone will be used in determining the granting of degrees "with distinction" or "with high distinction."

## Graduation With Honors

Students graduating with honors are those who have successfully completed the Morris Honors Program. (See Honors Program above for detailed program requirements.)

### Dean's List

The Dean's List recognizes students who have achieved an outstanding academic record during a given semester. To qualify, students must have completed all credits for which they were registered during that semester, registered for a minimum of 12 credits of which two-thirds must be on the A-F grading system, and earned a minimum term GPA of 3.666. The Dean's List is announced each semester by the vice chancellor for academic affairs and dean; a notation is put on the student's transcript, and a certificate is sent to each student named on the list.

There are instances in which coursework may extend beyond a single academic semester or a serious illness or justifiable emergency may make it impossible for work to be completed by the end of a semester. In such cases, students who meet all other Dean's List criteria stated above may petition the Functions and Awards Committee in writing for an exception; petitions must be filed within two weeks after the beginning of the next semester for which students register. Students who seek such exceptions should consult with the Office of the Registrar for more information.

## Campuswide Awards

Awards recognize exceptional scholarship and related achievements within the student body. Such scholarship can be demonstrated in a variety of ways. Award recipients are recognized at an annual Honors and Awards Ceremony prior to Commencement.

## Chancellor's Award

This award is presented to outstanding students on the basis of academic excellence and contribution to campus life. The Executive Committee of the Morris Campus Student Association and student members of the Campus Assembly nominate students for this award. Nominees are endorsed by the Functions and Awards Committee. Morris's chancellor makes the final selection.

## Scholar of the College Award

This award is presented annually to students who have demonstrated distinguished scholarly work by making valuable contributions in one or more of the academic disciplines. Nominations are made by the faculty, reviewed by the Functions and Awards Committee, and approved by the Campus Assembly.

## Allen W. Edson Award

This award is presented annually in recognition of a student's total contribution to campus life. Selection is made by the Executive Board of the Morris Campus Student Association, student members of the Campus Assembly, and the faculty. Allen Edson was superintendent of the University of Minnesota West Central School of Agriculture (WCSA) and Experiment Station on the Morris campus from 1947 to 1958. He joined the WCSA staff in 1921.

## Discipline-Based Honors

In addition to the above scholastic honors, the University of Minnesota, Morris recognizes campuswide student leadership in the academic disciplines. Discipline-based honors can be found at [www.morris.umn.edu/services/acad\\_affairs/DisciplineHonors.html](http://www.morris.umn.edu/services/acad_affairs/DisciplineHonors.html).





## Degree Completion

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# Degree Completion

## Bachelor of Arts Degree

Degrees from the University of Minnesota are granted by the Board of Regents upon the recommendation of the faculty of the University school or college, in this case the Morris campus, in which students are enrolled. Requirements vary among the undergraduate colleges of the University, and students must meet all course, credit, and grade point average (GPA) requirements of the college in which they are enrolled. The Morris Catalogs are in effect for nine years; this catalog is in effect from fall 2015 through the end of summer session 2024. However, students may choose to use the catalog in effect their first term and year at Morris (provided it has not expired) or any subsequent catalog.

The General Education requirements completed under any previous catalog, including expired catalogs, may be used to complete the bachelor of arts degree. Permission to use the major requirements from an expired catalog must be obtained from the faculty. If a degree application is on file with accompanying documentation that defines requirements to be completed, reasonable effort will be made to allow students to graduate based on that agreement. All other degree requirements—total credits, residency, GPA calculation, etc.—follow semester standards and policies in place at the time the degree is awarded.

Students in elementary education and secondary education licensure must complete licensure requirements and apply for licensure within seven years from the time of admission to the licensure program.

Students must apply to graduate by the 10th class day of spring semester. There is a commencement ceremony in May of each academic year.

## Degree Requirements

Requirements for the bachelor of arts (B.A.) degree at Morris include general education and the major. General education consists of three parts: Intellectual Community, Skills for the Liberal Arts, and Expanding Perspectives. Students in their first semester at Morris are expected to enroll in an Intellectual Community (IC) course. Students should also attempt to complete the Writing for the Liberal Arts (WLA) requirement in their first year at Morris. Transfer students who have completed 12 credit hours or more of courses at a college or university after receiving their high school diploma are exempt from the IC requirement, and, if those 12 or more post-high school matriculation credit hours include at least four credits of writing instruction and fulfill the writing requirement at their previous institution, are also exempt from the WLA requirement.\* Regardless, all students are strongly encouraged to complete WLA. All students

must also meet the other requirements listed in Skills for the Liberal Arts and in Expanding Perspectives. The major is a field of specialization with requirements specified by faculty in that discipline or academic area.

The Skills component of general education helps students acquire the intellectual and communication skills needed for successful advanced work. The Expanding Perspectives component helps students gain enough understanding of the principal areas of human endeavor to continue learning and to have a sense of the limits of their knowledge. Work in the major helps students learn in depth and makes them reasonably expert in one area.

In order to lay the foundation for learning early, students are expected to complete a significant part of the Skills component during their first and second years of college. The emphasis is on establishing an intellectual framework for future work—a framework consisting of writing, linguistic reasoning, and artistic skills. Students continue to develop these skills in advanced courses.

The Expanding Perspectives component aims to produce liberally educated people who are able to understand how knowledge is acquired in many different fields. These people usually have broad interests and know where to obtain information on almost any subject. They can solve problems because they bring ideas and techniques from one field to bear on another in innovative ways. In a world of diverse peoples, activities, and value systems, all of which are increasingly interrelated, it is especially important that college graduates have breadth as well as depth in their education and that they expand the horizons of their knowledge.

Expanding Perspectives is divided into two parts. One consists of a traditional core of liberal studies roughly organized around the subjects of history, social sciences, humanities, fine arts, and the biological and physical sciences. The other addresses contemporary themes, which are grouped under the heading, The Global Village. The goal is to expand students' perspectives on human diversity, people and the environment, the international scene, and issues of ethical and civic responsibility. Students gradually fulfill the Expanding Perspectives requirements throughout their college career.

During the first year, students should explore possible majors or fields of specialization, keeping in mind that, in a liberal arts degree program, the major is more of an intellectual "home base" than preparation for a specific occupation.

Transfer students with degrees from other colleges must complete the Morris degree requirements in order to have a major or minor appear on the Morris transcript. Majors and minors do not appear on the transcript unless they are part of a degree program.

\*This language was passed by Campus Assembly on April 29, 2014, and became immediately effective.

Courses taken to complete general education requirements may also apply to requirements in the major. However, all students must complete 60 credits of general education that are not drawn from the discipline of the major.

## Specific Provisions

### 1. General Education Requirements

(60 credits)

#### Goals of the General Education Requirements

- I. **Intellectual Community:** To foster development of a liberal arts intellectual community through the introduction of intellectual and practical skills and through active student-faculty engagement in course material.
- II. **A. Writing for the Liberal Arts:** To foster development of a collaborative writing community, to improve academic writing skills, and to practice the writing process, with emphasis on substantive revision; to develop information literacy particularly in relation to resources on the Morris campus, and to strengthen the foundation for advanced writing conventions specific to individual disciplines and for research processes generally expected in upper-level Morris courses.\*
  - B. **Foreign Language:** To develop proficiency in a single language other than English at the level equivalent to the first full year of college language study.
  - C. **Mathematical/Symbolic Reasoning:** To strengthen students' ability to formulate abstractions, construct proofs, and utilize symbols in formal systems.
  - D. **Artistic Performance:** To introduce an understanding of the creative process through individual performance, and demonstrate skill in such activities as composition, theater, dance, studio art, and music.
- III. **A. Historical Perspectives:** To increase students' understanding of the past, the complexity of human affairs, the ways in which various forces—economic, cultural, religious, political, scientific—influence efforts to control events, and the ways historians verify and interpret their findings.
  - B. **Human Behavior, Social Processes, and Institutions:** To increase students' systematic understanding of themselves as functioning humans, their individual similarities to and differences from others, their awareness of the nature and significance of their conscious experience, and the forces that shape their interpersonal attachments and interactions; or to increase students' understanding of methods of analyzing modern society or some significant legal, political, economic, religious, social, or scientific component of it.
- C. **Communication, Language, Literature, and Philosophy:** To expand students' capacity to understand, analyze, discuss, and evaluate discourse concerning the complexity of the human condition through the study of languages and works of thought and imagination.
- D. **Fine Arts:** To develop students' understanding, analysis, and appreciation of the arts.
- E. **Physical and Biological Sciences:** To increase students' understanding of the structure and dynamics of the physical and biological worlds, and of the scientific method.
- F. **The Global Village:** To increase students' understanding of the growing interdependence among nations, peoples, and the natural world.
  1. **Human Diversity:** To increase students' understanding of individual and group differences (e.g., race, gender, class) and their knowledge of the traditions and values of various groups in the United States.
  2. **People and the Environment:** To increase students' understanding of the interrelatedness of human society and the natural world.
  3. **International Perspective:** To increase students' systematic understanding of national cultures substantially different from those in which they received their prior schooling.
  4. **Ethical and Civic Responsibility:** To broaden and develop students' capacity to question and reflect upon their own and society's values and critical responsibilities, and to understand forces, such as technology, that cause them to modify these views and often mandate creation of new ways to resolve legal, social, and scientific issues.

#### Provision i

Morris courses designated as appropriate for meeting general education requirements are those which, if passed successfully, demonstrate the student's competency in a given skill or area.

Students are required to complete a minimum of 60 credits of general education coursework outside the discipline of the major and must meet the requirements listed below. The requirements may be met not only through Morris courses, but also by transfer of credit, examinations for proficiency or credit, assessment of prior learning, individual projects, and other means. For details, students should consult with their advisers.

In some instances the specific general education requirements may be met using fewer than 60 credits, so additional liberal arts elective courses outside the discipline of the major are needed. The following courses do not count towards the 60 credits outside the major: education

\*This language was passed by Campus Assembly on April 29, 2014, and became immediately effective.

practicums, most sport studies and athletics (SSA) courses, accounting courses, internships, elementary education, secondary education, and any non-liberal arts courses from another campus or institution.

**Note:** The designation following each category below, e.g., "IC," for Intellectual Community, appears at the beginning of the parenthetical information for each course that is appropriate for that category.

- I. **Intellectual Community (IC)**—One two-credit course.
- II. **Skills for the Liberal Arts**—One to five courses.

These requirements emphasize the development of the intellectual skills, the communication skills, and the framework for learning needed for successful advanced work. Because new students need this foundation early, they are expected to complete many of these requirements during their first and second years.

**A. Writing for the Liberal Arts (WLA)**— One four-credit course. Within a liberal arts education, writing is the primary way we develop and test our thinking. Writing is a skill that can always be improved, and learning to write is a process that is never finished. This requirement thus benefits all students, regardless of the writing skills, experiences, or coursework they bring with them to UMM.\*

**B. Foreign Language (FL)**—Proficiency in a single language other than English at the level equivalent to the first full year of college language study. This requirement can be met in any one of the following ways:

- by successfully completing a beginning language II course;
- by successfully completing a 2xxx or 3xxx level language course;
- by passing a proctored proficiency exam;
- by achieving appropriate AP, CLEP, or IB examination scores; or
- through the Scholastic Committee if English is not the student's first language.

Placement tests in selected languages are given by Morris language disciplines to determine the level of pre-college proficiency of a student with prior coursework. Students who plan to study at Morris in the same language that they studied in high school must take the placement examination and abide by the placement recommendation. If after initial exposure to the recommended course the placement is not appropriate to the student's level, students may consult their language instructors as to the proper course level of study.

Students who wish to "test out" of a second language based on prior learning in French, German, or Spanish

must pass a proctored proficiency exam. The initial online Morris placement examination does not fulfill this requirement.

Students who studied a second language other than German, French, or Spanish may contact the Scholastic Committee for further information.

- C. Mathematical/Symbolic Reasoning (M/SR)**—One course.
- D. Artistic Performance (ArtP)**—One course.
- III. **Expanding Perspectives**—Eight courses of at least two credits each.
  - A. Historical Perspectives (Hist)**—One course.
  - B. Human Behavior, Social Processes, and Institutions (SS)**—One course.
  - C. Communication, Language, Literature, and Philosophy (Hum)**—One course.
  - D. Fine Arts (FA)**—One course.
  - E. Physical and Biological Sciences (Sci—without lab; Sci-L—with lab)**—Two courses, at least one with lab.
  - F. The Global Village**—Two courses, one from each of two areas.
    1. **Human Diversity (HDiv)**
    2. **People and the Environment (Envt)**
    3. **International Perspective (IP)**
    4. **Ethical and Civic Responsibility (E/CR)**

#### Provisions ii through v

**Provision ii**—Goals will be used to match courses to general education requirements.

**Provision iii**—Only courses of two or more credits will satisfy an Expanding Perspectives requirement.

**Provision iv**—A course can satisfy only one of the general education categories.

**Provision v**— Writing for the Liberal Arts is required of all new first-year students. Those who have 12 or more post-high school matriculation credit hours are exempt from the WLA requirement only if the post-high school credits include at least four credits of writing instruction that fulfill the writing requirement at their previous institution. Petitions by students based on their having met the spirit of the requirement will be evaluated by the Writing for the Liberal Arts faculty.\*

Each major can provide students with a statement about how a student majoring in that area will formally acquire computing and writing skills. Students should contact their faculty adviser for current information.

\*This language was passed by Campus Assembly on April 29, 2014, and became immediately effective.

## 2. Major or Area of Concentration

**The Major**—The major at Morris is defined as an intensive and coherent program of study reflecting the structure of one or more fields of knowledge. The major complements the essential skills and the broad base of knowledge provided by general education.

The purpose of the major is to ensure that each student pursues a particular field of knowledge in depth, investigates advanced theories and schools of thought, and becomes competent in using the language and methods of inquiry of the field. It is through such concentrated study that a student begins to master a body of knowledge and comes to understand the nature of expertise in the chosen field, including both its power and its limitations.

Students complete a major by fulfilling the requirements as specified elsewhere in this catalog. Virtually all academic majors include a capstone experience appropriate to the discipline. Faculty members in the discipline determine the shape and form of the experience. Capstone experiences are credit bearing and usually are assigned as part of a required course.

Transfer students with degrees from other colleges must complete Morris degree requirements in order to have a major appear on the University transcript. Majors do not appear on the transcript unless they are part of a degree program. Transfer students with degrees from other colleges can receive licensure endorsement which is sent to the Minnesota Department of Education from the Division of Education.

**Area of Concentration**—Some students may choose to complete an area of concentration instead of a major. An area of concentration is an individualized, often interdisciplinary, group of courses that meets the requirement of study in depth of a specific field of knowledge. (Students who wish to complete an area of concentration must have the program approved by appropriate faculty advisers, division chairs, and the vice chancellor for academic affairs and dean. A copy of the approved program must be filed with the Office of the Registrar. Detailed procedures and forms are available from the Office of the Vice Chancellor for Academic Affairs and Dean or online at [www.morris.umn.edu/services/acad\\_affairs/aavarious.html](http://www.morris.umn.edu/services/acad_affairs/aavarious.html)).

## 3. Minor or Area of Concentration at the Minor Level

**The Minor**—The minor shares the essential characteristics of the major but differs from it quantitatively. It indicates a special interest and expertise beyond general education and provides sufficient skills and knowledge of the field to form a basis for further study. The requirements for minors are listed in this catalog under the appropriate academic discipline.

A minor is not required for graduation.

Transfer students with degrees from other colleges must complete the Morris degree requirements in order to have a minor appear on the Morris transcript. Minors do not appear on the transcript unless they are part of a degree program.

**Area of Concentration at the Minor Level**—Students may choose to complete a self-designed minor instead of the minor requirements listed in this catalog by following the same procedures used to define an area of concentration.

## 4. Minimum Required Credits

(120 credits)

Baccalaureate degrees require a minimum of 120 semester credits. The maximum number of S/N credits allowed by a student is 25% of University credits counted toward the degree (from any campus). The 120 credits required must include a minimum of 60 credits of general education outside the discipline of the major.

No major or program may require students to take more than 40 of the 120 credits required for graduation in any one discipline.\*\*

All credit awarded by the University, regardless of the campus or type of instruction, is recognized by all University campuses, appears on the transcript, and counts toward the requirements for the degree (subject to the requirements and standards established by departments, colleges, and campuses). In some cases, a student may accumulate credits that, while recognized by the University, are in excess of what may be required for the degree program in which he or she is enrolled.

No more than 8 credits in Music Ensembles (Mus 1300 through Mus 1340); no more than 4 credits in SSA 12xx skills courses; no more than 4 credits in Varsity Athletics (SSA 1401 through SSA 1412); no more than 32 credits from internship (IS 3796, 3896, 3996); and no more than 4 credits in Psychology Field Experience (Psy 4896) may be applied to the 120-credit degree requirement. The use of the grade of D in the major may be restricted by the discipline.

*\*\*For the purpose of this policy all secondary education methods courses are considered to belong to the secondary education discipline. Introductory foreign language courses do not count toward the 40-credit maximum in the language disciplines. Introduction to public speaking courses do not count toward the 40-credit maximum in speech communication. Current information is available at*

[www.policy.umn.edu/Policies/Education/Education/BACREDITREQ.html](http://www.policy.umn.edu/Policies/Education/Education/BACREDITREQ.html).

## 5. Quality of Work

The cumulative GPA required for graduation is 2.000. A minimum GPA of 2.000 (or higher if indicated by the discipline) is required in the major or area of concentration and in the minor or area of concentration at the minor level in order to graduate. Both the cumulative GPA and the major/minor GPA include all, and only, University of Minnesota coursework. The maximum number of S/N credits allowed to a student is 25% of University credits counted

toward the degree (from any campus). Current information is available at

[www.policy.umn.edu/Policies/Education/Education/BACREDDITREQ.html](http://www.policy.umn.edu/Policies/Education/Education/BACREDDITREQ.html).

## **6. Credits from Graduating Campus (Residency)**

Current information is available at [www.policy.umn.edu/Policies/Education/Education/DEGREEREQUIREMENT.html](http://www.policy.umn.edu/Policies/Education/Education/DEGREEREQUIREMENT.html).

Students must complete the following minimum number of credits at the campus from which they expect to graduate before a degree will be granted.

- I. To be eligible for a University undergraduate degree, a student must complete at least 30 semester credits awarded by the University campus from which he or she is seeking to graduate.
- II. At least 15 credits of the last 30 credits earned prior to the awarding of a University degree, must be awarded by the University campus from which a student is seeking to graduate.
- III. Students must complete at least half of upper-division major work (3xxx courses or higher) on the campus from which they are seeking to graduate. Study-abroad credits earned through programs sponsored by the University are considered resident credit.
- IV. In order to have a minor recorded on a University transcript, a student must take at least three upper division credits in the minor field at the campus from which he or she will receive the degree.

## Academic Division Structure

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## Academic Division Structure

Disciplines (i.e., departments or fields such as English, physics, or psychology) are grouped administratively into four divisions—Education, Humanities, Science and Mathematics, and Social Sciences—to help integrate the various areas of study into a liberal arts curriculum, provide a forum for faculty discussion of common programs and interests, and encourage the planning of interdisciplinary academic programs. In addition, there are interdisciplinary courses, internships, and majors that cross divisional lines; these are found under Interdisciplinary Studies and fall under the direct responsibility of the vice chancellor for academic affairs and dean.

Courses are listed alphabetically by discipline. Each discipline description includes, as appropriate, requirements for the major and/or the minor. Teacher education licensure requirements can be found in the Education, Elementary and Education, Secondary sections.

### Division of Education

- Education (page 104)
- Education, Elementary (page 105)
- Education, Secondary (page 109)
- Sport Management (page 193)
- Sport Studies and Athletics (page 195)

In education programs, students can study education and its role in society; complete a major and teaching licensure in elementary education with an optional preprimary or middle level endorsement; prepare to teach one or more liberal arts subjects at the secondary school level; and/or prepare for graduate study in education.

Intercollegiate athletics, lifetime physical activity and wellness classes, coaching endorsement, and courses required for a major in sport management are offered in the sport studies and athletics discipline.

Many students enrolled at Morris, no matter what their area of study, participate in intercollegiate athletic competition, which is directed by the sport studies and athletics faculty.

Division of Education programs are enhanced through faculty commitment to personalized instruction, use of current instructional technologies, student research, and opportunities for student and faculty participation in multicultural and international educational experiences.

### Division of the Humanities

- American Sign Language (page 79)
- Art History (page 82)
- Art, Studio (page 84)
- Chinese (page 94)
- Communication, Media, and Rhetoric (page 94)
- Dance (page 100)
- English (page 116)

- French (page 129)
- German Studies (page 139)
- Humanities (page 154)
- Italian (page 158)
- Language (page 158)
- Latin (page 159)
- Music (page 169)
- Philosophy (page 172)
- Spanish (page 190)
- Theatre Arts (page 199)

The Division of the Humanities is composed of 10 disciplines offering a major, as well as supplementary courses in dance, Italian, Latin, and the humanities, e.g., the literature and thought of the non-English-speaking world in translation.

Since the time of the ancient Greeks and Romans, the disciplines in the humanities have been central to the meaning of a liberal education. These disciplines investigate important questions about the nature of human beings and their cultures, and examine alternative views concerning the meaning and direction of life.

In addition to its curricular programs, the Division of the Humanities sponsors and directs a varied program of co-curricular activities, organizations, and events for the campus and surrounding communities, including:

- Student art exhibitions, an active student Art Club, and Art Gallery exhibits of works by professional artists
- Scheduled poetry readings; the Prairie Gate Press; Prairie Gate Literary Festival; foreign and American films; the Writing Center to help students develop creative and expository writing skills; lectures on literary and language subjects; French, German, and Spanish student clubs with a variety of projects; opportunities for language students to travel and study abroad
- A varied program of musical events, including symphonic winds, orchestra, jazz ensemble, and choir concerts, as well as recitals by students and faculty; opportunities to work with well-known composers and artists in residence; tours.
- A philosophy colloquium in which internationally distinguished philosophers participate; an active Philosophy Club run by students which meets every week; easily reachable regional undergraduate conferences where students present their papers.
- A number of opportunities in communication, media, and rhetoric, including sponsorship of speakers and discussion groups, student attendance at conferences, and participation in the student organization Communication Club, as well as the Morris Intercollegiate Speech Team, which competes at several meets each year.



- Annual offering of faculty- and student-directed plays; opportunities to work with professional troupes in residence; annual theatre tour to New York or London, when feasible.

The Division of the Humanities provides students with opportunities to participate in the varied curricular and co-curricular programs described above. Through participation in these programs either as employees or volunteers, scores of students each year discover for themselves the meaning and value of a liberal education.

Finally, the Division of the Humanities offers its students one of Morris's most beautiful and useful facilities, the Humanities Fine Arts Center—a building to which Progressive Architecture granted its First Design Award with the following citation:

“It gives architectural form to a powerful new direction in education—the school being integrated into the community. This project shows how the school can be a model for community development.”

## Division of Science and Mathematics

Biology (page 88)

Chemistry (page 90)

Computer Science (page 96)

Environmental Science (page 122)

Geology (page 137)

Mathematics (page 166)

Physics (page 174)

Statistics (page 197)

Whether interested in biology, chemistry, computer science, environmental science, geology, mathematics, physics, or statistics, students find that programs in Morris's Division of Science and Mathematics offer excellent preparation for employment in a related field, graduate study, or teaching in junior or senior high school. Courses leading to Minnesota secondary education licensure are offered in chemistry, physics, life science, earth and space science, and mathematics. The sciences form an integral part of Morris's preprofessional programs in the health, medical, and engineering fields and contribute to general education studies.

Students have many opportunities to work closely with their professors. Students have conducted research on human-computer interaction, program optimization, and evolutionary computation. They have helped develop a variety of methods for the analysis of statistical data, such as a loglinear model of educational data and the representation of three-dimensional copulas in terms of two-dimensional marginals. Students have also collaborated with faculty in developing mathematical models that are crucial in solving large-scale optimization problems and they have worked on solving open questions in theoretical mathematics and graph theory. Students researched the physics of highly excited

atoms, studied emissions of astronomical masers, performed observational optical astronomy, and modeled the behavior of materials with computers. They have investigated the role of fire in prairies, invasive species in forests, macroinvertebrate communities in prairie pothole lakes, regulation of cell cycles and bioluminescence, genetics of endangered species, microbial resistance to antibiotics, vertebrate embryogenesis, and effects of changing climate and atmosphere on forest trees. They have studied the geology of glacial deposits in Minnesota, analyzed the fossils and sediments of the Cretaceous Seaway in South Dakota, and contributed to faculty field research in the Rocky Mountains of Colorado and Idaho. They have conducted research on the breakdown of pesticides, the preparation of novel chemical compounds, and the development of new chemical reactions both at Morris and in universities and laboratories across the country. Students have published results of their research with faculty or have given presentations of their findings at conferences or seminars. Many students at some time serve as teaching assistants, earning a financial stipend while assisting professors in tasks such as helping with laboratory courses, tutoring beginning students, assisting with greenhouse maintenance, and operating the Morris telescope.

Over the past several years, awards of external funds from granting agencies such as the National Science Foundation and the Howard Hughes Medical Institute have enabled the Division of Science and Mathematics to support more extensive research collaboration among its students and faculty.

In geology and biology, field trips are an integral part of the learning process. Students and faculty have traveled to the Florida Keys, to central and coastal Belize, to the volcanoes of Hawaii, to the deserts of Arizona and New Mexico, to western Canada and Alaska, and throughout Minnesota and surrounding regions of the Upper Midwest, in seeking a better understanding of Earth's natural environments, landforms, and processes.

Students will find other ways to enhance their studies in the sciences. The Geology, Math, ACM Computer Science, Biology, ACS Chemistry, and Physics and Engineering Clubs provide an opportunity for students and faculty who share mutual interests to meet informally and participate in related activities. In addition, visiting scientists frequently come to campus to discuss current scientific problems and topics with Morris faculty and students.

The Division of Science and Mathematics hosts several visiting alumni events, in particular, the Latterell Memorial Visiting Alumni Program in the fall semesters and the Science and Math Visiting Alumni Program in the spring. Thanks to the generosity of donors and alumni, every student who graduates with a major in one of the Sciences or Mathematics programs has at least one opportunity, within four years, to interact with a returning alum who

graduated from the same program. The external grant from the Howard Hughes Medical Institute also enables the Biology discipline to host the Careers in Biology: Alumni Speaker Series.

## Division of the Social Sciences

Anthropology (page 80)

Economics (page 101)

Gender, Women, and Sexuality Studies (page 133)

Geography (page 137)

History (page 142)

Human Services (page 149)

Management (page 162)

Political Science (page 176)

Psychology (page 179)

Social Science Major (page 183)

Sociology (page 188)

The social sciences consist of the branches of study dealing with the structure of human and non-human societies and the activities of their members. The Division of the Social Sciences includes the disciplines of anthropology, economics, geography, history, management, political science, psychology, and sociology. In addition, its courses are incorporated into the interdisciplinary programs in American Indian studies, environmental studies, and Latin American area studies.

It also offers majors in gender, women, and sexuality studies and liberal arts for the human services; and a social science major for teacher licensure. The social sciences coursework is oriented toward liberal education studies that prepare students to broadly understand human and non-human behavior and the cultures and institutions created by them.

Many of the social science disciplines encourage various kinds of fieldwork. Students intern on the local as well as state and national levels.

A hallmark of the social sciences at Morris is undergraduate research. Students author or coauthor research papers and projects with faculty and present papers at professional conferences. Many students serve as research and teaching assistants. They go beyond the boundaries of a strict “classroom” education to explore and gain firsthand experience with the professional tools of their field.

Morris’s Division of the Social Sciences has many resources that lend themselves well to establishing individual and group learning experiences. These include a wide variety of service learning opportunities, internships, and field studies programs.

Close student-faculty rapport is an important aspect of social sciences study. Individualized attention is emphasized and faculty members encourage students to work with them on a one-to-one basis in order to create programs and access opportunities that best suit students’ needs and interests.

## Interdisciplinary Programs

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American Indian Studies (page 77)

Environmental Studies (page 125)

Honors Program (page 147)

Interdisciplinary Studies (page 154)

Latin American Area Studies (page 159)

Morris offers interdisciplinary majors and/or minors—whose educational objectives are realized through the integration of courses from two or more disciplines—in African and Black American studies; American Indian studies; environmental studies; gender, women, and sexuality studies; human services; and Latin American area studies. Interdisciplinary course offerings not associated with an interdisciplinary major or minor involve in-depth material of two or more traditional academic disciplines or divisions, and some include subject material of a very broad nature that cannot properly be regarded as a part of a traditional discipline or division.

## Major and Minor Programs and Course Descriptions

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Programs and courses in this catalog are current as of February, 2015. For up-to-date information, see [www.catalogs.umn.edu/morris](http://www.catalogs.umn.edu/morris).

# Major and Minor Programs and Course Descriptions

## Course Numbers and Designators

Course numbers reflect the level of difficulty of a course. Generally, courses numbered 1xxx are for undergraduates in their first year of study courses numbered 2xxx are for undergraduates in their second year of study courses numbered 3xxx are for undergraduates in their third year of study and 4xxx are for undergraduates in their fourth year of study. Some courses require prerequisite coursework or advanced class status for entrance while others do not. Students should plan their programs carefully to complete courses in the proper sequence. Students who have not successfully completed the prerequisite course(s) may be administratively dropped from a course.

The current *Class Schedule* contains information on course prerequisites hours and days and room assignments.

In connection with course numbers, disciplines and programs are identified by a two-, three-, or four-letter designator prefix (e.g., Ed for Education, Pol for Political Science, LAAS for Latin American Area Studies).

## Symbols, Abbreviations, and Punctuation

The following symbols, abbreviations, and punctuation are used throughout the course descriptions in lieu of page footnotes:

- 1201-1202-1203** ..... A *hyphen* between course numbers indicates a sequence of courses that must be taken in the order listed. The first course in the sequence is a prerequisite for the second course, and the second course in the sequence is a prerequisite for the third course.
- 1201, 1202, 1203** ..... A *comma* between course numbers indicates a series of courses that may be entered any semester.
- Honors** ..... "Honors:" at the beginning of a course title indicates an Honors course.
- Sci-L** ..... Courses that meet specific general education requirements are designated as IC, WLA, FL, M/SR, ArtP, Hist, SS, Hum, FA, Sci, Sci-L, HDiv, Evt, IP, E/CR. (See page 61 for more information about general education requirements.)
- cr** ..... Credits per semester.
- #** ..... Approval of the instructor is required for registration.
- prereq** ..... Before enrolling in some courses, students must have successfully completed certain other courses, or possess some particular qualification or class standing, known as a "prerequisite" (prereq). Students taking one or more courses as a prerequisite for a second course may register for the second course only after they have successfully completed the prerequisite course(s). If no prerequisites are listed, there are none for the course. A prerequisite listed by number only (e.g., prereq 3105) is in the same discipline as the course being described.
- coreq** ..... Students must be enrolled in the corequisite (coreq) course(s) at the same time. If no corequisites are listed, there are none for the course. A corequisite course listed by number only (e.g., coreq 3105) is in the same discipline as the course being described.
- prereq or coreq** ..... Students must either successfully complete the prerequisite course, OR may enroll in the pre/corequisite course concurrently.
- ,** ..... In prerequisite and corequisite listings, a comma means "and."
- =** ..... Credit will not be granted if credit has been received for the course listed after this symbol (e.g., =[Soc 3602]).
- %** ..... Approval of the discipline offering the course is required for registration.
- @** ..... Approval at the college level (i.e., a form with appropriate signatures) is required for registration.
- Same as** ..... "Same as" courses meet three qualifications: 1) have content sufficient in two (or more) identified disciplines to count in each; 2) have identical course descriptions, published in each associated discipline; 3) are taught at the same time, in the same classroom, by the same instructor.
- Cluster** ..... Some courses are grouped into "clusters" because they have common themes or fulfill common requirements. Most clusters are headed by a paragraph identifying the shared elements of the courses.

Programs and courses listed in this PDF are current as of fall 2015. The most current version of all Morris course descriptions can be found online at [www.catalogs.umn.edu/morris/index.html](http://www.catalogs.umn.edu/morris/index.html).

## African and Black American Studies (AFAM)

### *Interdisciplinary Studies—Academic Affairs*

The African and Black American Studies minor allows students to explore the art, cultures, histories, and literatures of people of African descent here in the United States, where African American experiences and cultures are central to America's self-definition, and also in Africa and in other places of African diaspora. This minor will allow students of all racial and ethnic identities to concentrate on issues pertinent to Africa and the African diaspora, particularly those of Black America, and to integrate their understanding of those issues into the broader context of American and world histories and cultures. The minor offers an interdisciplinary and interdivisional curriculum that enables students to explore a variety of intellectual approaches and to make methodological and thematic connections and comparisons among those several approaches.

**Objectives**—The objectives of the African and Black American studies minor are to

- \* familiarize students with the variety, depth, and significance of African and Black Americans' contributions to world and American culture;
- \* enable students to see and appreciate the many African and Black American points of view of history, society, politics, literature, art, and music;
- \* help students connect the African and Black American experiences to the broader context of the African diaspora;
- \* develop students' understanding of the nature of race and the dynamics of race and racism in the United States and in the world; and
- \* give students a grasp of some of the methodological and intellectual approaches to a broad and multifaceted area of study.

### African and Black American Studies Minor

Courses for the minor may not be taken S-N unless offered S-N only. No grades below C—are allowed. A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Students must take a minimum of 24 credits in at least three different disciplines. At least 16 of the 24 credits must be devoted to primarily African and/or Black American content.

#### **Courses with PRIMARILY African and/or Black American content**

*Take 16 or more credits from the following:*

- ARTH 3241—African American Art [FA] (4 cr)
- ENGL 2041—Introduction to African American Literature [HDIV] (4 cr)
- ENGL 3331—African American Literature [HDIV] (4 cr)
- ENGL 3332—African American Women Writers [HDIV] (4 cr)
- ENGL 3522—Harlem Renaissance [HDIV] (4 cr)
- FREN 1311—Sub-Saharan Francophone Cinema [IP] (4 cr)
- FREN 1312—Morocco: History, Story, Myth [IP] (4 cr)
- FREN 3603—Francophone Studies: Contes francophones (2 cr)
- FREN 3605—Francophone Studies: Le Cinema du Maghreb (4 cr)
- FREN 3606—Francophone Studies: Sub-Saharan Francophone Cinema (4 cr)
- GWSS 3001—Troubling Genders in African Cinema [HUM] (4 cr)
- HIST 3356—Civil Rights Movement, 1954-1974 [HIST] (4 cr)
- MUS 1043—American Jazz Styles [FA] (4 cr)
- POL 3514—Pyramids and Politics on the Nile [IP] (4 cr)
- SOC 3251—African Americans [HDIV] (4 cr)
- SPAN 3685—Seminar: Slavery and Abolition in Cuban Literature and Culture [IP] (4 cr)
- SPAN 3687—Seminar: Afro-Hispanic Literature and Culture [HDIV] (4 cr)

#### **Courses with PARTIAL African and/or Black American content**

*Take at most 8 credits from the following:*

- ED 2221—Diversity and Identity in Literature and Film [HDIV] (4 cr)
- ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)
- ENGL 4017—Research Seminar: Tricksters-Conjurers in American Indian and African American Literature [HDIV] (4 cr)

- FREN 3505—Modern Studies: Immigration and Identity in Modern France (4 cr)
- HIST 1301—Introduction to U.S. History [HIST] (4 cr)
- HIST 2352—The U.S. 1960s [HIST] (4 cr)
- HIST 2608—History of Cuba: From Colony to Revolutionary State [HIST] (4 cr)
- HIST 3304—Race, Class, and Gender in American History [HDIV] (4 cr)
- HIST 3355—United States in Transition, 1877-1920 [HIST] (4 cr)
- HIST 3358—Civil War and Reconstruction [HIST] (4 cr)
- HIST 3614—Race and Ethnicity in Latin America [HDIV] (4 cr)
- MUS 1049—Introduction to American Popular Music [HUM] (4 cr)
- POL 2234—Race, Class and Power: Social Movements in U.S. Politics [HDIV] (2 cr)
- POL 2235—Race, Class and Power: Interest Groups in U.S. Politics [HDIV] (2 cr)
- PSY 3542—Multicultural Psychology [HDIV] (4 cr)
- SOC 2101—Systems of Oppression [HDIV] (4 cr)
- SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)
- SOC 3124—Sociology of Law (4 cr)
- SOC 3141—Sociology of Deviance [E/CR] (4 cr)

## African and Black American Studies Course Descriptions

**ARTH 3241. African American Art.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, even years)  
Survey of African American art from colonial times to the present, focusing on social context and aesthetic and biographical issues.

**ED 2221. Diversity and Identity in Literature and Film.** (HDIV; 4 cr; spring, offered periodically)  
A survey of key concepts in diversity research (including power, prejudice, social justice, institutionalized discrimination, tolerance) as well as identity representation in literary and film texts. Additionally, students analyze power relationships and how they impact and are impacted by such institutions as schooling and the media.

**ENGL 2041. Introduction to African American Literature.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; spring, offered periodically)

Introduction to issues and themes in African American literature and culture, with emphasis on historical and cultural context.

**ENGL 3301. U.S. Multicultural Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212, or #; spring, offered periodically)  
Examination of literatures by African American, American Indian, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

**ENGL 3331. African American Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, spring, offered periodically)  
Study of African American literature. Particular attention given to issues of gender, class, power, "passing," and the racialized body.

**ENGL 3332. African American Women Writers.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or #; fall, offered periodically)  
If African Americans struggled to achieve equality and recognition in the racist United States, the situation was even more difficult for African American women, who had to contend with the sexism in both the white and black communities. This course examines the writings of prominent African American women.

**ENGL 3522. Harlem Renaissance.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, even years)  
During the 1920s, there was a major aesthetic outpouring in the African American community. Listen to jazz, examine African American artwork, and read poetry, short stories, novels and essays from Harlem Renaissance writers.

**ENGL 4017. Research Seminar: Tricksters—Conjurers in American Indian and African American Literature.** (HDIV; 4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)  
Study of tricksters and conjurers in American Indian and African American literature, in particular their ability to maintain traditional practices and subvert the dominant culture and imposed cultural norms. Special attention given to cultural and historical contexts and questions of power, identity, cultural difference, and assimilation.

**FREN 1311. Sub-Saharan Francophone Cinema.** (IP; 4 cr; does not count toward the Fren minor; fall, spring, offered periodically)  
Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. All films have English subtitles. Taught in English. Meets Francophone Studies (FRS) requirement for the French major.

**FREN 1312. Morocco: History, Story, Myth.** (IP; 4 cr; A-F only; does not count toward the Fren minor; summer, offered periodically)  
Study of the ways that history, myth, and storytelling intertwine to create Moroccan identity and of the different methods of telling stories through orature, literature, weaving, ceramics, and music. Students learn about current concerns and successes in Moroccan society. Taught in English. Meets Francophone Studies (FRS) requirement for the French major.

**FREN 3505. Modern Studies: Immigration and Identity in Modern France.** (4 cr; prereq (or coreq) 3011 or #; spring, offered periodically)  
Examination of the history of immigration in France, with a particular focus on the years following the Algerian War to the present. Study of literary representations of cultural dislocation as written by immigrant minorities in France and of the effects of these narratives on the creation of cultural, social, and national identities within these communities and in France. Discussions of the tensions in France between its relatively new multicultural identity and its traditional identity based on a homogenous set of characteristics.

**FREN 3603. Francophone Studies: Contes francophones.** (2 cr [max 4 cr]; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 3042; fall, spring, offered periodically)  
Study of the oral tale in African and Caribbean cultures. Examination of the form of these tales, their thematic structure, and how these tales have been translated into written and/or cinematographic texts. Meets Francophone Studies (FRS) requirement in French major.

**FREN 3605. Francophone Studies: Le Cinema du Maghreb.** (4 cr; prereq (or coreq) 3011 or #; fall, offered periodically)  
A study of Algerian, Tunisian, and Moroccan history and culture as presented through the art of cinema. Examination of films produced in the francophone Maghreb thematically, focusing on topics such as colonialism, gender, Islam, childhood, and immigration. An important goal is to learn to analyze and discuss film academically. Meets Francophone Studies (FRS) requirement in French major.

**FREN 3606. Francophone Studies: Sub-Saharan Francophone Cinema.** (4 cr; prereq (or coreq) 3011 or #; fall, spring, offered periodically)  
Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Meets Francophone Studies (FRS) requirement in French major.

**GWSS 3001. Troubling Genders in African Cinema.** (HUM; 4 cr; fall, spring, offered periodically)  
This course explores the ways in which Sub-Saharan African film directors have used cinematic arts to challenge and envision paradigms of feminine, masculine and queer identity. Students will study African models of womanist thought and how they work with, through and against various "Western" models of gender. All films have English subtitles.

**HIST 1301. Introduction to U.S. History.** (HIST; 4 cr; fall, every year)  
Methods, themes, and problems in the study of the history of the United States.

**HIST 2352. The U.S. 1960s.** (HIST; 4 cr; fall, even years)  
History of the United States in the 1960s. Backgrounds to the 1960s; political and cultural issues of the decade; the Kennedy promise, civil rights and other movements, Vietnam war, counterculture, conservative backlash, and legacy.

**HIST 2608. History of Cuba: From Colony to Revolutionary State.** (HIST; 4 cr; fall, spring, offered periodically)  
A survey of the history of Cuba from Spanish colonization to the present, with emphasis on the 19th and 20th centuries. Topics include colonization, slavery, imperialism, nationalism, and the Cuban Revolution.

**HIST 3304. Race, Class, and Gender in American History.** (HDIV; 4 cr; fall, spring, offered periodically)  
The themes of race, class, and gender are explored in-depth throughout the semester. Students gain a new awareness about historiography and theories that highlight this growing subfield of American history. Prominent topics covered in lecture and readings include colonization, slavery,

suffrage, immigration, sovereignty, labor, ghettoization, art, literature, culture, and the rise of self-determination. Study the intersection of race, class, and gender relations through multiple perspectives of region, ideology, political-economy, and religion.

**HIST 3355. United States in Transition, 1877-1920.** (HIST; 4 cr; spring, odd years)  
Topics, themes, and problems in U.S. history, 1877 to 1920.

**HIST 3356. Civil Rights Movement, 1954-1974.** (HIST; 4 cr; fall, spring, offered periodically)  
Background of the Civil Rights movement, emergence of the theory and practice of nonviolence, various Civil Rights groups, role of women, legislative and other accomplishments of the movement, its aftermath and influence.

**HIST 3358. Civil War and Reconstruction.** (HIST; 4 cr; fall, spring, offered periodically)  
Origin, context, and significance of the Civil War and Reconstruction.

**HIST 3614. Race and Ethnicity in Latin America.** (HDIV; 4 cr; fall, spring, offered periodically)  
Explore issues of race and ethnicity in Latin America from a historical perspective. Covering the colonial and national periods, examine how ideas of race and ethnicity have intersected with political, economic, and socio-cultural developments in the region. Consider the ways in which race, class, and gender have intersected in Latin America.

**MUS 1043. American Jazz Styles.** (FA; 4 cr; fall, spring, offered periodically)  
Development and analysis of the New Orleans dixieland, ragtime, stride, boogie-woogie, Chicago dixieland, swing, bop, cool, funky, progressive, third-stream, free form, and fusion jazz styles. Introductory course to help non-music majors become familiar with and appreciate this art form.

**MUS 1049. Introduction to American Popular Music.** (HUM; 4 cr; =[MUS 1801]; spring, even years)  
Survey of popular musical styles in America from the early 20th century to today.

**POL 2234. Race, Class and Power: Social Movements in U.S. Politics.** (HDIV; 2 cr; spring, even years)  
Using a case study approach, this half-semester course examines a variety of social movements from across U.S. history. Addresses questions such as why social movements arise, how they succeed or fail, and how the American political system adapts to their influence.

**POL 2235. Race, Class and Power: Interest Groups in U.S. Politics.** (HDIV; 2 cr; spring, even years)  
A half-semester course focusing on the growth and importance of interest groups in U.S. politics by looking at different types of interest groups, the tactics they use to try to influence the political system, how successful they are at doing so, and whether this system works for the public good.

**POL 3514. Pyramids and Politics on the Nile.** (IP; 4 cr; prereq #; summer, offered periodically)  
Four-week study-abroad course on Egyptian political history with an emphasis on the environmental challenges of the Nile River Valley. Guided excursions, guest speakers, and individual exploration at significant political, historical, and cultural sites in the Cairo area and along the Nile Valley from Aswan to Alexandria.

**PSY 3542. Multicultural Psychology.** (HDIV; 4 cr; =[PSY 3541]; prereq 1051; fall, every year)  
Theoretical and methodological approaches to multicultural psychology. Multicultural psychology is the systematic study of behavior, cognition, and affect settings where people of different backgrounds interact. Exploration of these interactions both within and outside of the United States. Topics may include worldviews, communication styles, acculturation, prejudice, white privilege, identity development, physical and mental health, and multicultural competencies.

**SOC 2101. Systems of Oppression.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)  
Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some attention to other systems of oppression such as heterosexism and ageism.

**SOC 3121. Sociology of Gender and Sexuality.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)  
Introduces students to the sociological study of gender and sexuality. Focuses on gender difference and gender inequality. Analyzes the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo

change in today's world. Following a theoretical overview, examines how gender and sexuality affect everyday experiences. social class.

**SOC 3124. Sociology of Law.** (4 cr; prereq 1101; spring, every year) Explore the emergence and function of law through the lens of social theories. The course assumes law is embodied in the social structure of society; hence, it is the product of social interaction. Based on this assumption, it examines the role of law in maintaining and reproducing social order, class, race, and gender inequalities. The course is interdisciplinary and comparative in its scope and integrates jurisprudence and various social science theories.

**SOC 3141. Sociology of Deviance.** (E/CR; 4 cr; prereq 1101 or #; fall, even years) Introduces students to the sociological study of deviance. Explores the social reality of deviance within contemporary society and examines the social construction of deviant categories. Focuses on images of deviance as social constructs, rather than as intrinsic elements of human behavior. Investigates the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also, examines the socio-cultural definitions of morality and behavior.

**SOC 3251. African Americans.** (HDIV; 4 cr; prereq 1101 or Anth 1111; fall, spring, offered periodically) Examination of African American religious, economic, political, family, and kinship institutions in the context of the greater American society. Struggles to overcome problems and the degree of success or failure of these struggles are examined and placed in historical context. their specific socio-cultural and socio-political contexts.

**SPAN 3685. Seminar: Slavery and Abolition in Cuban Literature and Culture.** (IP; 4 cr; prereq 3012, 3112, or #; fall, spring, offered periodically)

A study of the major texts surrounding Cuban slavery from the 1812 Aponte slave rebellion to independence from Spain in 1898. How did 19th-century writers depict Cuban slave society? What was the relationship between literature, abolition, and independence?

**SPAN 3687. Seminar: Afro-Hispanic Literature and Culture.** (HDIV; 4 cr; prereq 3011, 3012, or #; fall, spring, offered periodically) An overview of the literature and culture of peoples of African descent in Spanish America from the colonial period to present day. How have Afro-Hispanics been marginalized from national projects in Spanish America? To what extent and under what circumstances has the group been included? How have Afro-Hispanic writers responded to larger culture?

## American Indian Studies (AMIN)

### *Interdisciplinary Studies—Academic Affairs*

This is an interdisciplinary major under the authority of the vice chancellor for academic affairs and dean. The program is administered by the coordinator(s) of American Indian Studies.

The American Indian Studies major is designed to enhance a student's awareness and his or her overall knowledge about sovereignty and the diversity of Indigenous cultures throughout all of Native North America. Majors are required to engage and learn American Indian history, policies, cultures, literature, language, arts, sciences, and other creative endeavors within a globalized context. American Indian Studies promotes critical thinking, writing, and communication skills that are also rooted in Indigenous knowledge systems and community involvement. The curriculum emphasizes the role of the student as an active learner and participant within a growing and vibrant intertribal campus community.

### American Indian Studies Major

Students develop a coherent program of study in consultation with their major adviser.

American Indian Studies students are especially encouraged to take an American indigenous language, such as Anishinaabe and Dakota.

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the major requirements. Courses may not be taken S-N, unless S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework.

Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

With approval of the American Indian Studies coordinator(s), a capstone course in a different major may be substituted for AMIN 4901 if it contains primary American Indian content (e.g., ENGL 4017—Research Seminar: Tricksters-Conjurers in American Indian and African American Literature).

AMIN 1101—Introduction to American Indian Studies [HDIV] (4 cr)  
AMIN 4901—Senior Project in American Indian Studies (4 cr)  
ENGL 2411—Representations of American Indians in Popular and Academic Culture [HDIV] (4 cr) NOTE: Engl 3311 is the preferred literature course.

ENGL 3311—American Indian Literature [HDIV] (4 cr)  
or ENGL 3312—World Indigenous Literature and Film [HDIV] (4 cr)

HIST 2251—American Indians and the United States: A History [HDIV] (4 cr)

### Elective Courses

Students must complete at least 20 credits from the electives listed below, subject to the following restrictions:

1. Courses are exclusive of any used to complete the required courses.
2. At least 12 credits must be from Primary American Indian Studies.
3. No more than 4 credits of directed studies (X993) may be applied to the major.
4. No more than 3 credits of ARTS 1050 may be applied to the major.
5. No more than 8 credits of American Indigenous languages may be applied to the major.

Take 20 or more credits from the following:

#### Primary American Indian Studies Electives

Take 12 or more credits from the following:

- AMIN 1801—American Indian Song and Dance [IC] (2 cr)  
AMIN 2801—Anishinaabe Song and Dance: An Exploration of Song and Dance, Traditions and Practices [HDIV] (4 cr)  
AMIN 2993—Directed Study (1–5 cr)  
AMIN 3993—Directed Study (1–5 cr)  
ANTH 3455—North American Archaeology (4 cr)  
ENGL 3312—World Indigenous Literature and Film [HDIV] (4 cr)  
ENGL 4017—Research Seminar: Tricksters-Conjurers in American Indian and African American Literature [HDIV] (4 cr)  
HIST 3304—Race, Class, and Gender in American History [HDIV] (4 cr)  
HIST 3359—Native Strategies for Survival, 1880-1920 [HDIV] (4 cr)  
HIST 3614—Race and Ethnicity in Latin America [HDIV] (4 cr)

#### Primary American Indian Studies Electives, Indigenous Languages

Take at most 8 credits from the following:

- AMIN 1001—Beginning Dakota Language I (4 cr)  
AMIN 1002—Beginning Dakota Language II [FL] (4 cr)  
AMIN 1011—Beginning Anishinaabe Language I (4 cr)  
AMIN 1012—Beginning Anishinaabe Language II [FL] (4 cr)  
AMIN 2011—Intermediate Anishinaabe Language I [HUM] (4 cr)  
AMIN 2012—Intermediate Anishinaabe Language II [HUM] (4 cr)

#### Related American Indian Studies

Take at most 8 credits from the following:

- ARTS 1050—Beginning Ceramics [ART/P] (3 cr)  
CMR 3411—Intercultural Communication Theory and Research [HDIV] (4 cr)  
ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)  
HIST 2451—The American West [HIST] (4 cr)  
PSY 3542—Multicultural Psychology [HDIV] (4 cr)  
SOC 2101—Systems of Oppression [HDIV] (4 cr)  
SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)

**Other Elective Courses**

Directed studies and interdisciplinary internships, with appropriate subject matter, may be used to meet the elective requirements.

**American Indian Studies Minor**

American Indian Studies students are especially encouraged to take an American indigenous language, such as Anishinaabe and Dakota.

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements. Courses may not be taken S-N unless S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

**Required Courses**

AMIN 1101—Introduction to American Indian Studies [HDIV] (4 cr)

**Electives**

Students must complete at least 16 credits from the electives below, subject to the following restrictions:

1. Students must have at least one course from two of the disciplines below.
2. No more than 4 credits of directed studies (X993) may be applied to the minor.
3. No more than 8 credits of an American Indigenous language may apply to the minor.

*Take 16 or more credits from the following:*

AMIN 2801—Anishinaabe Song and Dance: An Exploration of Song and Dance, Traditions and Practices [HDIV] (4 cr)

AMIN 2993—Directed Study (1–5 cr)

AMIN 3993—Directed Study (1–5 cr)

ANTH 3455—North American Archaeology (4 cr)

ANTH 3993—Directed Study (1–5 cr)

ENGL 2411—Representations of American Indians in Popular and Academic Culture [HDIV] (4 cr)

ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)

ENGL 4017—Research Seminar: Tricksters-Conjurers in American Indian and African American Literature [HDIV] (4 cr)

HIST 2251—American Indians and the United States: A History [HDIV] (4 cr)

HIST 2451—The American West [HIST] (4 cr)

HIST 3304—Race, Class, and Gender in American History [HDIV] (4 cr)

HIST 3359—Native Strategies for Survival, 1880-1920 [HDIV] (4 cr)

HIST 3614—Race and Ethnicity in Latin America [HDIV] (4 cr)

ENGL 3311—American Indian Literature [HDIV] (4 cr)

or ENGL 3312—World Indigenous Literature and Film [HDIV] (4 cr)

*Take at most 8 credits from the following:*

AMIN 1001—Beginning Dakota Language I (4 cr)

AMIN 1002—Beginning Dakota Language II [FL] (4 cr)

AMIN 1011—Beginning Anishinaabe Language I (4 cr)

AMIN 1012—Beginning Anishinaabe Language II [FL] (4 cr)

AMIN 2011—Intermediate Anishinaabe Language I [HUM] (4 cr)

AMIN 2012—Intermediate Anishinaabe Language II [HUM] (4 cr)

**Other Elective Courses**

Directed studies and interdisciplinary internships, with appropriate subject matter, may be used to meet the elective requirements.

**American Indian Studies Course Descriptions**

**AMIN 1001. Beginning Dakota Language I.** (4 cr; fall, every year)

An introduction to speaking, writing, and reading Dakota language and an overview of Dakota culture.

**AMIN 1002. Beginning Dakota Language II.** (FL; 4 cr; prereq 1001 or #; spring, every year)

A continuation of 1001 with greater emphasis on conversation and culture.

**AMIN 1011. Beginning Anishinaabe Language I.** (4 cr; fall, every year)  
An introduction to speaking, writing, and reading Anishinaabe language and an overview of Anishinaabe culture.

**AMIN 1012. Beginning Anishinaabe Language II.** (FL; 4 cr; prereq 1011; spring, every year)

A continuation of 1011 with greater emphasis on conversation and culture.

**AMIN 1101. Introduction to American Indian Studies.** (HDIV; 4 cr; fall, every year)

An introduction to American Indian histories, literature and other creative endeavors, and cultures. An interdisciplinary course emphasizing sovereignty, effects of government policies, and diversity of American Indian societies.

**AMIN 1801. American Indian Song and Dance.** (IC; 2 cr; prereq new college student in the first semester of enrollment at UMM; fall, offered periodically)

An academic and active exploration of song and dance traditions from American Indian tribes.

**AMIN 2011. Intermediate Anishinaabe Language I.** (HUM; 4 cr; prereq 1012 or placement or #; fall, offered periodically)

Review of the essential structural patterns of the Anishinaabe language; continued development of oral, aural, reading, and writing skills based on cultural and literary texts appropriate to this level.

**AMIN 2012. Intermediate Anishinaabe Language II.** (HUM; 4 cr; prereq 2011 or placement or #; spring, offered periodically)

Review of the essential structural patterns of the Anishinaabe language; continued development of oral, aural, reading, and writing skills based on cultural and literary texts appropriate to this level.

**AMIN 2211. First Nations Values and Spiritual Beliefs.** (HDIV; 3 cr; prereq #; spring, offered periodically)

Exploration of the foundational values and spiritual beliefs of Native Americans from around North America.

**AMIN 2801. Anishinaabe Song and Dance: An Exploration of Song and Dance, Traditions and Practices.** (HDIV; 4 cr; prereq 1011 or #; spring, odd years)

Exploration of the language and culture of Anishinaabe song and dance traditions in historical and contemporary times. Learn the deeper meaning and different styles of the ceremonial practices of the Anishinaabe people, which include learning how to make hand drums and studying traditional dance societies and belief systems.

**AMIN 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, summer, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**AMIN 3201. Oceti Sakowin: Lakota, Dakota, and Nakota History and Culture.** (HDIV; 4 cr; spring, offered periodically)

An interdisciplinary introduction to the history, culture, and sovereignty of the Oceti Sakowin, the Seven Council Fires of the Lakota, Dakota, and Nakota. Introduction to and discussion of the history and culture of the Oceti Sakowin with focus on contemporary issues in Indian Country.

**AMIN 3202. Indigenous Landscapes.** (HDIV; 4 cr; spring, offered periodically)

Exploration of the importance of land to global indigenous populations beyond the United States: the Maori, Aboriginal Australians, and the Polynesian, Asian, and African peoples. Students investigate contemporary political movements, activism, and art forms employed by indigenous communities to maintain their life-ways and sovereignty.

**AMIN 3211. Connecting Archaeology and Native America.** (SS; 4 cr; prereq #; a two-week summer archaeological dig is required; spring, offered periodically)

Explore the theory and methods of archaeological research from the beginning of the discipline to today's new directions in the field. Apply the archaeology skills learned in class during a two-week summer archaeological dig gaining valuable hands-on experience in excavation.

**AMIN 3213. Indigenous Thought and Knowledge.** (HDIV; 3 cr; prereq #; spring, offered periodically)

Introduction to both historical and contemporary forms of indigenous thought in North America. In particular, focus is on the issues of "knowing differently" and of what indigenous thinkers call "the spiritual dimension" of their thought.



**AMIN 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, summer, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**AMIN 4901. Senior Project in American Indian Studies.** (4 cr; prereq 1101, Amln major, #; fall, every year)

A culminating research project in American Indian Studies. have (or have failed to) live sustainably.

**ANTH 3455. North American Archaeology.** (4 cr; prereq 1111 or 2103; fall, spring, offered periodically)

The archaeology of the societies located in the current United States and Canada prior to European colonization. Includes the earliest human colonization of North America (circa 12,000 years ago), early hunting and gathering societies, the development of agriculture, and the formation of complex chiefdoms. Emphasis on the diversity of cultures, languages, economies, and environments found throughout precontact North America.

**ANTH 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
Individualized on-or off-campus research project or other learning activity not covered in the regular anthropology curriculum. Topic determined by the student and instructor.

**ARTS 1050. Beginning Ceramics.** (ART/P; 3 cr [max 6 cr]; materials fee required; fall, every year)

Personal expression through the medium of clay. Topics include forming methods using stoneware and porcelain (hand building and wheel techniques), glazing, the nature of clay, glaze chemistry, firing, and kilns.

**CMR 3411. Intercultural Communication Theory and Research.** (HDIV; 4 cr; prereq 1101 or #; fall, offered periodically)

Study of intercultural communication from an interpersonal and group perspective.

**ENGL 2411. Representations of American Indians in Popular and Academic Culture.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; fall, offered periodically)

Study of representations of American Indians in American popular and academic culture including literature, films, and sports. Particular attention given to how Indian identity, history, and cultures are represented in pop culture by non-Indians and, more recently, Indians themselves.

**ENGL 3301. U.S. Multicultural Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212, or #; spring, offered periodically)

Examination of literatures by African American, American Indian, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

**ENGL 3311. American Indian Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212, or #; fall, spring, offered periodically)

Study of American Indian literature written in English. Particular attention given to language, identity, land, and sovereignty.

**ENGL 3312. World Indigenous Literature and Film.** (HDIV; 4 cr; prereq 2501, two from 2201, 2202, 2211, 2212, or #, or Amln major; spring, even years)

Comparative study of indigenous literature and film from North America, New Zealand, and Australia with particular emphasis given to issues of political and cultural sovereignty, cultural appropriation, self-representation, and colonial nostalgia.

**ENGL 4017. Research Seminar: Tricksters—Conjurers in American Indian and African American Literature.** (HDIV; 4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)

Study of tricksters and conjurers in American Indian and African American literature, in particular their ability to maintain traditional practices and subvert the dominant culture and imposed cultural norms. Special attention given to cultural and historical contexts and questions of power, identity, cultural difference, and assimilation.

**HIST 2251. American Indians and the United States: A History.** (HDIV; 4 cr; spring, every year)

The experience of the original Americans and their interaction with later immigrants. conservative backlash, and legacy.

**HIST 2451. The American West.** (HIST; 4 cr; =[HIST 3451]; fall, even years)

Overview of the history of the American West up to the 21st century. While many scholars have argued that the "West" was merely a necessary process of national expansion, others argue that it is a very

significant region—the most culturally and ecologically diverse region in the country. Discussion of these major historical interpretations of the American West and examination of how people have understood this vast region as a cultural icon of national identity. Work through various definitions of the West and identify how political issues of the environment, international borderlands, and gender and race relations have significantly influenced the United States for many generations. Through lectures, readings, and discussion, examine Western history chronologically while also covering other major themes including federalism, the mythic West, tourism, ranching and agriculture, urban and suburban areas, film, and religion.

**HIST 3304. Race, Class, and Gender in American History.** (HDIV; 4 cr; fall, spring, offered periodically)

The themes of race, class, and gender are explored in-depth throughout the semester. Students gain a new awareness about historiography and theories that highlight this growing subfield of American history. Prominent topics covered in lecture and readings include colonization, slavery, suffrage, immigration, sovereignty, labor, ghettoization, art, literature, culture, and the rise of self-determination. Study the intersection of race, class, and gender relations through multiple perspectives of region, ideology, political-economy, and religion.

**HIST 3359. Native Strategies for Survival, 1880-1920.** (HDIV; 4 cr; fall, odd years)

Exploration of the events and policies that sought to eliminate American Indian communities and cultures and the strategies that American Indians developed to survive. Students gain insight into a pivotal time for the "incorporation" of the United States and ongoing tensions between unity and diversity that characterize the nation's political economy and social structure. Paradoxes under scrutiny include the degree to which policies claiming to emancipate actually imprisoned and prisons became homelands.

**HIST 3614. Race and Ethnicity in Latin America.** (HDIV; 4 cr; fall, spring, offered periodically)

Explore issues of race and ethnicity in Latin America from a historical perspective. Covering the colonial and national periods, examine how ideas of race and ethnicity have intersected with political, economic, and socio-cultural developments in the region. Consider the ways in which race, class, and gender have intersected in Latin America.

**PSY 3542. Multicultural Psychology.** (HDIV; 4 cr; =[PSY 3541]; prereq 1051; fall, every year)

Theoretical and methodological approaches to multicultural psychology. Multicultural psychology is the systematic study of behavior, cognition, and affect settings where people of different backgrounds interact. Exploration of these interactions both within and outside of the United States. Topics may include worldviews, communication styles, acculturation, prejudice, white privilege, identity development, physical and mental health, and multicultural competencies.

**SOC 2101. Systems of Oppression.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some attention to other systems of oppression such as heterosexism and ageism.

**SOC 3121. Sociology of Gender and Sexuality.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Introduces students to the sociological study of gender and sexuality. Focuses on gender difference and gender inequality. Analyzes the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today's world. Following a theoretical overview, examines how gender and sexuality affect everyday experiences.

## American Sign Language (ASL)

### *Division of the Humanities*

A beginning sign language course designed to introduce students to an alternative mode of communication. Emphasis is placed on the fundamentals, conceptual principles, and syntax of sign language. Students are introduced to deaf culture and the deaf community.

**Objectives**—To help students prepare for more advanced sign language classes by:

1. Defining the broader base of sign
2. Applying the linguistic principles of sign
3. Understanding the basic receptive and expressive skills of sign
4. Understanding more about the deaf community and its culture

## American Sign Language Course Descriptions

**ASL 1001. Beginning American Sign Language I.** (4 cr; no credit for students who have received cr for Ed 1011; fall, every year)  
Students develop a working vocabulary of conceptually based signs. Emphasis is on receptive abilities. Students develop an awareness of the history of sign language and explore various signing systems, their most common uses, and the cultural rules and values of American Deaf culture.

**ASL 1002. Beginning American Sign Language II.** (FL; 4 cr; prereq 1001 or placement or #; no credit for students who have received cr for Ed 1012; spring, offered periodically)  
Continuation of the sequence beginning with 1001. Students develop a working vocabulary of conceptually based signs, receptive ability, and an awareness of the history of sign language. They also explore various signing systems, their most common uses, and the cultural rules and values of American Deaf culture.

## Anthropology (ANTH)

### Division of the Social Sciences

The anthropology curriculum, with support from sociology courses, focuses on providing a comparative understanding of the range of human cultures and societies throughout the world in both humanistic and social scientific terms. Anthropology applies this understanding to problems faced by different groups of people in the flux of the modern world. Courses meet the needs of liberal arts students and students planning to pursue anthropology at the graduate level.

### Program Student Learning Outcomes:

#### 1—Increased Multicultural Competency

Awareness of one's own cultural filters, ability to think comparatively across sociocultural contexts, and to apply a culturally relative perspective regarding cultural diversity

#### 2—Applications of Anthropological Perspectives

Development of an anthropological sensibility that enables one to distill social meaning from everyday encounters with individuals, material objects, texts, and other social phenomena, with reference to both past and present human biological, ethnic, and cultural variation; ability to articulate anthropological insights into contemporary issues, and to apply them to the workplace and contemporary world

#### 3—Research Methods and Theories

Familiarity with anthropological literature and qualitative and quantitative data in at least one of the subdisciplines of anthropology; ability to develop an original research project, and to conduct ethnographic or archaeological field work using appropriate methods; effective communication of anthropological data and/or fieldwork

#### 4—Ethical Principles

Understanding of ethical principles relative to the conduct of anthropological research and processes, and the application of research findings

#### 5—Understanding Human Variation

Achievement of a holistic knowledge of the discipline as a whole, and ability to articulate in a knowledgeable way the central ideas from the subdisciplines of cultural anthropology, biological anthropology, and archaeology; understanding and appreciation of contemporary ethnic/cultural variation, bio-cultural systems, and modern biological diversity

## Anthropology Major

Students develop a coherent program of study in consultation with their major adviser generally no later than the spring semester of their sophomore year.

Up to four credits of D+ or D may be used to meet the major requirements if offset by a sufficient number of higher grades to meet the minimum requirement of a cumulative GPA of 2.0 in all courses in the major. Courses may not be taken S-N unless offered S-N only.

The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

ANTH 1111—Introductory Cultural Anthropology [SS] (4 cr)

ANTH 2101—Biological Anthropology [SCI-L] (5 cr)

ANTH 2103—Archaeology [SS] (4 cr)

ANTH 4411—Seminar in Anthropological Methodology [E/CR] (4 cr)

ANTH 4901—Seminar in Anthropological Theory (4 cr)

### Elective Courses

An additional 16 credits in anthropology and sociology courses, 12 of which must be in courses 3xxx or above. No more than 8 credits can be from SOC courses. No more than 4 credits can be from IS 3796.

*Take at most 4 credits from the following:*

ANTH 1812—Human Societies: Past and Present, Fact and Fiction [IC] (4 cr)

ANTH 1813—Culture on TV: An Introduction to Anthropology [IC] (2 cr)

ANTH 2202—Men and Masculinities [SS] (4 cr)

ANTH 2204—Anthropology of Education: Learning and Schooling in Ethnographic Perspective [SS] (4 cr)

ANTH 2206—Sex, Marriage, and Family [HDIV] (4 cr)

SOC 1101—Introductory Sociology [SS] (4 cr)

SOC 1811—Global Sociology: Migration, Economic Globalization, Class, and Gender Inequality [IC] (2 cr)

SOC 1812—Human Rights in the Age of Globalization [IC] (2 cr)

SOC 1813—Political Economy of "Natural" Disaster [IC] (2 cr)

SOC 1814—Water Unites, Water Divides: Sharing Water in the 21st Century [IC] (2 cr)

SOC 2101—Systems of Oppression [HDIV] (4 cr)

ANTH 1xxx, 2xxx

SOC 1xxx, 2xxx

*Take 12 or more credits from the following:*

ANTH 3204—Culture, Food, and Agriculture [ENVT] (4 cr)

ANTH 3206—Ecological Anthropology [ENVT] (4 cr)

ANTH 3455—North American Archaeology (4 cr)

ANTH 3502—Latinos in the Midwest [SS] (4 cr)

ANTH 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)

ANTH 3602—Women in Latin America [IP] (4 cr)

ANTH 3603—Latin American Archaeology (4 cr)

ANTH 3701—Forensic Anthropology [SCI-L] (4 cr)

ANTH 3704—Anthropological Genetics (4 cr)

ANTH 4501—Archaeological Fieldschool [SS] (4 cr)

IS 3796—Interdisciplinary Internship in the Helping Professions (1–16 cr)

SOC 3103—Research Methodology in Sociology (4 cr)

SOC 3111—Sociology of Modernization [IP] (4 cr)

SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)

SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)

SOC 3122—Sociology of Childhoods [HDIV] (4 cr)

SOC 3123—Sociology of Aging [HDIV] (4 cr)

SOC 3124—Sociology of Law (4 cr)

SOC 3125—Terrorism, Law, and the State [SS] (4 cr)

SOC 3131—World Population [ENVT] (4 cr)

SOC 3141—Sociology of Deviance [E/CR] (4 cr)

SOC 3204—Culture, Food, and Agriculture [ENVT] (4 cr)

SOC 3251—African Americans [HDIV] (4 cr)

SOC 3252—Women in Muslim Society [IP] (4 cr)

SOC 3403–Sociological Theory (4 cr)  
 SOC 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)  
 SOC 3602–Women in Latin America [IP] (4 cr)  
 ANTH 3xxx, 4xxx  
 SOC 3xxx, 4xxx

## Anthropology Minor

Up to four credits of D+ or D may be used to meet the minor requirements if offset by a sufficient number of higher grades to meet the minimum cumulative GPA of 2.00 in all courses included in the minor. Courses may not be taken S-N unless offered S-N only. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

ANTH 1111–Introductory Cultural Anthropology [SS] (4 cr)  
 ANTH 2101–Biological Anthropology [SCI-L] (5 cr)  
 ANTH 2103–Archaeology [SS] (4 cr)  
 ANTH 4411–Seminar in Anthropological Methodology [E/CR] (4 cr)

### Elective Courses

An additional 8 credits in anthropology and sociology courses, 4 of which must be in courses 2xxx or above. No more than 4 credits can be from SOC courses. No more than 4 credits can be from IS 3796.

*Take at most 4 credits from the following:*

ANTH 1812–Human Societies: Past and Present, Fact and Fiction [IC] (4 cr)  
 ANTH 1813–Culture on TV: An Introduction to Anthropology [IC] (2 cr)  
 ANTH 2202–Men and Masculinities [SS] (4 cr)  
 ANTH 2204–Anthropology of Education: Learning and Schooling in Ethnographic Perspective [SS] (4 cr)  
 ANTH 2206–Sex, Marriage, and Family [HDIV] (4 cr)  
 SOC 1101–Introductory Sociology [SS] (4 cr)  
 SOC 1811–Global Sociology: Migration, Economic Globalization, Class, and Gender Inequality [IC] (2 cr)  
 SOC 1812–Human Rights in the Age of Globalization [IC] (2 cr)  
 SOC 1813–Political Economy of "Natural" Disaster [IC] (2 cr)  
 SOC 1814–Water Unites, Water Divides: Sharing Water in the 21st Century [IC] (2 cr)  
 SOC 2101–Systems of Oppression [HDIV] (4 cr)  
 ANTH 1xxx, 2xxx  
 SOC 1xxx, 2xxx

*Take 4 or more credits from the following:*

ANTH 3204–Culture, Food, and Agriculture [ENVT] (4 cr)  
 ANTH 3206–Ecological Anthropology [ENVT] (4 cr)  
 ANTH 3455–North American Archaeology (4 cr)  
 ANTH 3502–Latinos in the Midwest [SS] (4 cr)  
 ANTH 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)  
 ANTH 3602–Women in Latin America [IP] (4 cr)  
 ANTH 3603–Latin American Archaeology (4 cr)  
 ANTH 3701–Forensic Anthropology [SCI-L] (4 cr)  
 ANTH 3704–Anthropological Genetics (4 cr)  
 ANTH 4501–Archaeological Fieldschool [SS] (4 cr)  
 IS 3796–Interdisciplinary Internship in the Helping Professions (1-16 cr)  
 SOC 3103–Research Methodology in Sociology (4 cr)  
 SOC 3111–Sociology of Modernization [IP] (4 cr)  
 SOC 3112–Sociology of the Environment and Social Development [ENVT] (4 cr)  
 SOC 3121–Sociology of Gender and Sexuality [HDIV] (4 cr)  
 SOC 3122–Sociology of Childhoods [HDIV] (4 cr)  
 SOC 3123–Sociology of Aging [HDIV] (4 cr)  
 SOC 3124–Sociology of Law (4 cr)  
 SOC 3125–Terrorism, Law, and the State [SS] (4 cr)  
 SOC 3131–World Population [ENVT] (4 cr)  
 SOC 3141–Sociology of Deviance [E/CR] (4 cr)  
 SOC 3204–Culture, Food, and Agriculture [ENVT] (4 cr)  
 SOC 3251–African Americans [HDIV] (4 cr)  
 SOC 3252–Women in Muslim Society [IP] (4 cr)

SOC 3403–Sociological Theory (4 cr)  
 SOC 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)  
 SOC 3602–Women in Latin America [IP] (4 cr)  
 ANTH 3xxx, 4xxx  
 SOC 3xxx, 4xxx

### Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

## Anthropology Course Descriptions

**ANTH 1111. Introductory Cultural Anthropology.** (SS; 4 cr; fall, spring, every year)

Varieties and range of human behavior as revealed through the comparative study of cultures throughout the world. Concepts developed by anthropologists to explain both the unity and diversity of humankind.

**ANTH 1812. Human Societies: Past and Present, Fact and Fiction.**

(IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Consider fictional representations of human societies in the fantasy, science fiction, and alternate history genres. Compare these to ethnographic and archaeological readings, exploring the diversity of human societies, all around the world, from our earliest human ancestors through the modern era, with particular focus on social/political structures, gender roles, religion, and ethnicity. Consider what factors most strongly affect the structure of human societies, how these are or are not reflected in fiction, and how fiction reflects the authors' beliefs of what constitute the fundamental aspects of humankind, human personalities, and human societies.

**ANTH 1813. Culture on TV: An Introduction to Anthropology.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Introduction to basic anthropological concepts using popular depictions of "culture" and anthropology in the media, specifically, in reality TV. Students watch clips or episodes of TV shows like "Cops," "Sister Wives," "Run's House," and "Deadliest Catch." These serve as a springboard to critical engagement with anthropological concerns and concepts like cultural relativism, ethics of research and entertainment, religion, gift exchange, sexuality, gender, marriage, and kinship.

**ANTH 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) Individualized on- or off-campus research project or other learning activity not covered in the regular Anthropology curriculum. Topic determined by the student and instructor.

**ANTH 2101. Biological Anthropology.** (SCI-L; 5 cr; A-F only; spring, every year)

What is human nature, and how did we get this way? The class covers evolutionary theory, modern human biodiversity, our primate relatives, and human evolution. Includes a 90-minute lab session.

**ANTH 2103. Archaeology.** (SS; 4 cr; fall, every year)

Survey of prehistoric and early historic cultures from around the world. Covers the development of hunting and gathering societies, origins of agriculture, and growth of urbanization and state-level societies. (two 65-minute lectures, one 120-minute lab session)

**ANTH 2202. Men and Masculinities.** (SS; 4 cr; prereq some academic background or knowledge about gender and sexuality is recommended; fall, offered periodically)

Introduction to the field of men and masculinity. Examines cultural construction of masculinity in sports, family, work, media, and other social realms, with a focus on contemporary American, Chinese, Mexican, and Japanese societies. Highlights the multiple masculinities that exist, showing which are privileged and what effects this hierarchy of masculinities has. Topics include men's movements and networks, men's socialization, male sexuality and fertility, male aggression and violence, the idea of machismo, intimacy and friendship among males, fatherhood, men's experiences with sports and work, media representations of boys and men, and the social construction of masculinities in different historical and cultural contexts. Helps students understand how masculinity as a social concept affects their relationships with the people in their lives, approaching gender problems in a rational way, and developing cultural sensitivity toward masculinity issues.

**ANTH 2204. Anthropology of Education: Learning and Schooling in Ethnographic Perspective.** (SS; 4 cr; spring, offered periodically) Introduction to the central concepts and methods used by cultural anthropologists to study and understand educational processes.

Exploration of approaches to diverse educational settings, including both formal and informal contexts. The seminar-style format of the course emphasizes critical thinking and encourages students to connect the readings and course topics to their own lives and experiences.

**ANTH 2206. Sex, Marriage, and Family.** (HDIV; 4 cr; spring, offered periodically)

Introduction to classic anthropological theories of sexuality, kinship, and marriage. Consider how emotional and experiential aspects of sex, marriage, and family life—love and romance as well as conflict and control—are shaped by formal arrangements known as "social structure." Topics such as gift-exchange, cousin-marriage, patrilineal and matrilineal descent, incest, arranged marriage, and the concept of "blood" relations in North American families are addressed. Also explore recent anthropological work on such topics as transnational adoption, marriage migration, and new reproductive technologies.

**ANTH 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) Individualized on- or off-campus research project or other learning activity not covered in the regular anthropology curriculum. Topic determined by the student and instructor.

**ANTH 3204. Culture, Food, and Agriculture.** (ENVT; 4 cr; =[SOC 3204]; prereq 1111 or Soc 1101 or #; spring, every year)

Same as Soc 3204. Examines the globalization of food systems utilizing a political ecology perspective to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.

**ANTH 3206. Ecological Anthropology.** (ENVT; 4 cr; prereq 1111 or 2101 or 2103; fall, every year)

Exploration of human ecology and the causes and effects of environmental change, using data from archaeology, biological anthropology, and cultural anthropology. Emphasis on understanding the social and economic context of human adaptations to the environment. Examination of cultures worldwide and through time that have (or have failed to) live sustainably.

**ANTH 3455. North American Archaeology.** (4 cr; prereq 1111 or 2103; fall, spring, offered periodically)

The archaeology of the societies located in the current United States and Canada prior to European colonization. Includes the earliest human colonization of North America (circa 12,000 years ago), early hunting and gathering societies, the development of agriculture, and the formation of complex chiefdoms. Emphasis on the diversity of cultures, languages, economies, and environments found throughout precontact North America.

**ANTH 3502. Latinos in the Midwest.** (SS; 4 cr; spring, offered periodically)

Explore the history and experiences of Latinos in the Midwest United States. Starting from a historical perspective, the course examines issues including (im)migration, undocumented status, language, religion, race/ethnicity, media, and economy. A comparative framework emphasizes the unique context of migration into (rather than out of) rural communities as well as those far from a national border. Given the context of the local Morris community, the focus is particularly on rural Latino experiences.

**ANTH 3601. Social Justice and Human Rights in Latin America.** (IP; 4 cr; =[SOC 3601]; prereq 1111 or Soc 1101 or #; fall, every year)

Same as Soc 3601. Examination of social, economic, and political transformations in Latin America with an emphasis on social justice and human rights. Critical approaches to understand U.S.-Latin American relations, labor struggles, rebellions to define alternative development, indigenous resistance to encroachment on resources and ways of life, civil war and genocide, and efforts to create a more environmentally and socially sustainable development.

**ANTH 3602. Women in Latin America.** (IP; 4 cr; =[SOC 3602]; prereq 1111 or Soc 1101 or #; spring, every year)

Same as Soc 3602. Study of the social, economic, and political positions of women in Latin American countries. Topics include class and ethnic differences, women in the labor force, and women's participation in political movements through the lens of feminist theory.

**ANTH 3603. Latin American Archaeology.** (4 cr; prereq 1111 or 2103; fall, spring, offered periodically)

Latin America from the earliest human colonization to European contact. Includes societies from northern Mexico through Tierra del Fuego, as well as the Caribbean. Covers early hunting gathering societies, origins of

agriculture, the rise of powerful states and empires, and their influence on later Colonial-period societies.

**ANTH 3701. Forensic Anthropology.** (SCI-L; 4 cr; prereq 2101 or Biol 2102; fall, odd years)

Recovery, identification, and analysis of human skeletal remains, including investigation techniques, identification of age, sex, ancestry, and cause of death. Two 65-min lectures and one 2-hour lab weekly.

**ANTH 3704. Anthropological Genetics.** (4 cr; A-F only; prereq 2101 or Biol 1111; fall, offered periodically)

Genetic variation in Homo sapiens, links between genes and behavior, and environmental effects on gene expression. Inheritance, "race," and population genetics. Genetics as a data source in paleoanthropology, including DNA recovered from fossil hominins. Human genetic change since the development of agriculture. Basic bioinformatic methods.

**ANTH 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) Individualized on- or off-campus research project or other learning activity not covered in the regular anthropology curriculum. Topic determined by the student and instructor.

**ANTH 4411. Seminar in Anthropological Methodology.** (E/CR; 4 cr; A-F only; prereq 1111 or Soc 1101, 4 addtl cr in Anth or Soc; fall, every year)

Exploration and evaluation of methods used in cultural anthropology; qualitative methods; research ethics; and design of qualitative research project.

**ANTH 4501. Archaeological Fieldschool.** (SS; 4 cr [max 8 cr]; prereq #; summer, offered periodically)

Experience in archaeological fieldwork, including excavation, survey, artifact processing, and living under field conditions.

**ANTH 4901. Seminar in Anthropological Theory.** (4 cr; A-F only; prereq 1111 or Soc 1101, 4 addtl cr in Anth or Soc; spring, every year)

Examines the historical development of anthropological theory, influences that shaped historical and contemporary anthropological theories, and major debates regarding their interpretation.

**ANTH 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular anthropology curriculum. Topic determined by the student and instructor.

## Art History (ARTH)

### *Division of the Humanities*

Art history involves the study of ways the visual arts reflect and shape the world's cultures.

**Objectives and Recommendations**—The purposes of the art history curriculum are:

- 1) To develop students' understanding of some of the historical traditions in the visual arts.
- 2) To develop and improve students' ability to analyze and interpret works of art through oral and written means.
- 3) To help students discover the rich and complex relationship of art to other aspects of culture.
- 4) To encourage students to have direct contact with art by means of studio art courses, class field trips and assignments, gallery internships, and study abroad experiences.

The discipline also recommends two years of college-level courses in foreign language.

### Art History Major

No grades below C—are allowed. Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate.

The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

ARTH 1101—Principles of Art [FA] (4 cr)

ARTH 1111—Ancient to Medieval Art [FA] (4 cr)

ARTH 1121—Renaissance to Modern Art [FA] (4 cr)

ARTH 4901—Capstone Assessment of Student Experience in Art History (1 cr)

**Basic Studio or Two Courses in 2 different media**

Basic Studio is preparation for advanced work in studio art. The three related parts must be taken concurrently and in sequence. Two 1xxx ARTS courses, in two different media, may substitute for the Basic Studio sequence.

**First Term of Basic Studio**

ARTS 1101–Basic Studio Drawing I [ART/P] (2 cr)  
 ARTS 1103–Basic Studio 2-D Design [ART/P] (2 cr)  
 ARTS 1105–Basic Studio Discussion I [ART/P] (1 cr)

**-and-Second Term of Basic Studio**

ARTS 1102–Basic Studio Drawing II [ART/P] (2 cr)  
 ARTS 1104–Basic Studio 3-D Design [ART/P] (2 cr)  
 ARTS 1106–Basic Studio Discussion II [ART/P] (1 cr)

**or 1xxx-level ARTS Courses (in 2 different media)**

*Take exactly 2 courses totaling 6 or more credits from the following:*

ARTS 1001–Visual Studies for Non-Majors: Drawing [ART/P] (3 cr)  
 ARTS 1002–Visual Studies for Non-Majors: Digitally Assisted Design [ART/P] (3 cr)  
 ARTS 1003–Visual Studies for Non-Majors: Beginning Painting [ART/P] (3 cr)  
 ARTS 1004–Visual Studies for Non-Majors: Printmaking [ART/P] (3 cr)  
 ARTS 1005–Visual Studies for Non-Majors: Photography [ART/P] (3 cr)  
 ARTS 1050–Beginning Ceramics [ART/P] (3 cr)  
 ARTS 1300–Watercolor Painting [ART/P] (3 cr)

**Elective Courses**

*Take 24 or more credits from the following:*

ARTH 2102–Art and Archaeology of Ancient Greece [FA] (4 cr)  
 ARTH 2103–Art and Archaeology of Ancient Rome [FA] (4 cr)  
 ARTH 3112–Art and the Byzantine Empire [FA] (4 cr)  
 ARTH 3113–Early Islamic Art and Culture [FA] (4 cr)  
 ARTH 3133–Boundaries and Transitions in Medieval Art [FA] (4 cr)  
 ARTH 3142–Art of the Italian Renaissance, 1300-1520 [FA] (4 cr)  
 ARTH 3161–16th-Century Italian Art [FA] (4 cr)  
 ARTH 3171–Baroque Art [FA] (4 cr)  
 ARTH 3191–American Art to 1900 [FA] (4 cr)  
 ARTH 3201–19th-Century European Art through Post-Impressionism [FA] (4 cr)  
 ARTH 3211–Early Modernist Art: Symbolism to Surrealism [FA] (4 cr)  
 ARTH 3221–American Art from the End of Modernism to the Postmodern Present [FA] (4 cr)  
 ARTH 3231–History of Photography [FA] (4 cr)  
 ARTH 3241–African American Art [FA] (4 cr)  
 ARTH 3261–Chinese Art [FA] (4 cr)  
 ARTH 3272–Athens, Art, and Theatre [FA] (4 cr)  
 ARTH 3273–Ars Otii: The Art of Roman Leisure [FA] (4 cr)  
 ARTH 3281–Women and Art [FA] (4 cr)  
 ARTH 3291–Facing the Past: Portraiture and Social History [FA] (4 cr)  
 ARTH 2xxx, 3xxx, 4xxx

**Art History Minor**

No grades below C–are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

**Required Courses**

ARTH 1101–Principles of Art [FA] (4 cr)  
 ARTH 1111–Ancient to Medieval Art [FA] (4 cr)  
 ARTH 1121–Renaissance to Modern Art [FA] (4 cr)

**Elective Courses**

*Take 12 or more credits from the following:*

ARTH 2102–Art and Archaeology of Ancient Greece [FA] (4 cr)  
 ARTH 2103–Art and Archaeology of Ancient Rome [FA] (4 cr)  
 ARTH 3112–Art and the Byzantine Empire [FA] (4 cr)  
 ARTH 3113–Early Islamic Art and Culture [FA] (4 cr)

ARTH 3133–Boundaries and Transitions in Medieval Art [FA] (4 cr)  
 ARTH 3142–Art of the Italian Renaissance, 1300-1520 [FA] (4 cr)  
 ARTH 3161–16th-Century Italian Art [FA] (4 cr)  
 ARTH 3171–Baroque Art [FA] (4 cr)  
 ARTH 3191–American Art to 1900 [FA] (4 cr)  
 ARTH 3201–19th-Century European Art through Post-Impressionism [FA] (4 cr)  
 ARTH 3211–Early Modernist Art: Symbolism to Surrealism [FA] (4 cr)  
 ARTH 3221–American Art from the End of Modernism to the Postmodern Present [FA] (4 cr)  
 ARTH 3231–History of Photography [FA] (4 cr)  
 ARTH 3241–African American Art [FA] (4 cr)  
 ARTH 3261–Chinese Art [FA] (4 cr)  
 ARTH 3272–Athens, Art, and Theatre [FA] (4 cr)  
 ARTH 3273–Ars Otii: The Art of Roman Leisure [FA] (4 cr)  
 ARTH 3281–Women and Art [FA] (4 cr)  
 ARTH 3291–Facing the Past: Portraiture and Social History [FA] (4 cr)  
 ARTH 2xxx, 3xxx, 4xxx

**Art History Course Descriptions****ARTH 1101. Principles of Art.** (FA; 4 cr; fall, spring, every year)

An introduction to the theories, methods, and vocabulary of art history. Involves development of basic skills of research, analysis, and interpretation of individual works of art. Helps the student to understand the intrinsic as well as the historical-cultural meanings of works of art.

**ARTH 1111. Ancient to Medieval Art.** (FA; 4 cr; fall, every year)

Survey of the major works of art of western Europe from its origins in the Paleolithic period through to the full development of the Gothic era. Includes the monuments of ancient Mesopotamia, Egypt, Greece, and Rome as well as those of the Early Christian and Romanesque periods. Also includes some treatment of non-Western traditions in this era.

**ARTH 1121. Renaissance to Modern Art.** (FA; 4 cr; spring, every year)

Survey of the major works of art of western Europe and the United States from 1400 to the present.

**ARTH 1801. Memorials and Memorialization.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

An exploration of the ways in which cultures throughout time have sought to commemorate life, and death, through visual forms. Examines various types of memorials, including monuments, tombstones, quilts, and tattoos, and considers how these visual media express that which may elude words.

**ARTH 1802. We Live in a World of Art and Heritage.** (IC; 2 cr [max 4 cr]; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

An introduction to the theories, methods, and vocabulary of art history. Involves development of basic skills of research, analysis, and interpretation of individual works of art. Helps the student to understand the intrinsic as well as the historical-cultural meanings of works of art.

**ARTH 2102. Art and Archaeology of Ancient Greece.** (FA; 4 cr; prereq any 1xxx ArH course or sophomore status or #; fall, odd years)

Beginning with the Bronze Age civilizations of the Aegean (Minoan, Cycladic, and Mycenaean), this course follows the development of the painting, sculpture, and architecture of ancient Greece, concentrating on the Classical period in Athens and the Hellenistic period in the Mediterranean.

**ARTH 2103. Art and Archaeology of Ancient Rome.** (FA; 4 cr; prereq any 1xxx ArH course or sophomore status or #; spring, odd years)

In-depth study of Roman art and archaeology beginning with the Villanovans and Etruscans and ending with the rise of Early Christian art. Focus on the public and political art of the various emperors.

**ARTH 3112. Art and the Byzantine Empire.** (FA; 4 cr; prereq any 1xxx ArH course or jr status or #; fall, even years)

A chronological and socio-political exploration of the development of art within the Byzantine Empire. The various roles that this art took within and beyond the borders of Byzantium.

**ARTH 3113. Early Islamic Art and Culture.** (FA; 4 cr; prereq any 1xxx ArH course or jr status or #; spring, even years)

An investigation of Islamic art and architecture in both the secular and religious realm. Examination of these works in the context of the cultures

and historical periods that produced them. Begins with the birth of Islamic art and continues up until the Ayyubid dynasty (14th century).

**ARTH 3132. Castles and Cathedrals.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years)

An investigation of the two major forms of architectural construction in the Middle Ages. Exploration of the development of the cathedral and castle as architectural forms and examination of the circumstances surrounding their evolution through the medieval period. Examples are drawn from continental Europe, the British Isles, and the Levant.

**ARTH 3133. Boundaries and Transitions in Medieval Art.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

A thematic look at medieval art and architecture beyond the traditional focuses of inquiry such as Constantinople, Rome, and Paris. An examination of the art and architecture of the periods and areas of transition that are typically ignored or glossed over as derivative such as Late Antique, Crusader, and Ottoman.

**ARTH 3142. Art of the Italian Renaissance, 1300-1520.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years)

A variety of methods (including stylistic, gender, and contextual theories) are used to explore the painting and sculpture of such artists as Giotto, Donatello, Leonardo, Raphael, and Michelangelo.

**ARTH 3161. 16th-Century Italian Art.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years)

An investigation of the fascinating trends of Mannerist and Venetian Renaissance art, considered through the lenses of art theory, biography, social history, and style.

**ARTH 3171. Baroque Art.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

A sociohistorical consideration of the stylistic and thematic diversity present in the works of such 17th-century masters as Caravaggio, Bernini, Velazquez, Rembrandt, and Vermeer.

**ARTH 3191. American Art to 1900.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, spring, offered periodically)

A thematic exploration of the role of painting, sculpture, and the decorative arts in American society, from colonial times to 1900. Topics include the landscape and Manifest Destiny, American icons, folk art, and the representation of American Indians, African Americans, and women.

**ARTH 3201. 19th-Century European Art through Post-Impressionism.**

(FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years) Survey of major movements from Neoclassicism through Romanticism, Realism, and Impressionism to Post-Impressionism. Attention is given to iconographical and formal analysis as well as to the social conditions in which artists lived and worked.

**ARTH 3211. Early Modernist Art: Symbolism to Surrealism.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years)

Survey of the major early modernist movements from Symbolism through Cubism, Futurism, Expressionism, Constructivism, De Stijl, and the Bauhaus to Surrealism. Attention is given to theories of modern art as well as to formal and iconographical analyses and to the social conditions in which modern art was created and experienced.

**ARTH 3221. American Art from the End of Modernism to the Postmodern Present.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, even years)

An examination of selected artists and movements from the 1940s through the present. Equal emphasis is given to the art and the social context in which it was made and experienced, and to modernist and postmodernist aesthetic and critical thought.

**ARTH 3231. History of Photography.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

Survey of European and American photography from the period of invention to the present. Major artists and movements are examined in the context of a variety of aesthetic, social, and technical issues.

**ARTH 3241. African American Art.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, even years)

Survey of African American art from colonial times to the present, focusing on social context and aesthetic and biographical issues.

**ARTH 3261. Chinese Art.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

Survey of Chinese arts from the Neolithic times to the 20th century, presented in the context of Chinese culture.

**ARTH 3272. Athens, Art, and Theatre.** (FA; 4 cr; prereq any 1xxx Arth course or #; attendance at evening UMM theatre performance required; fall, spring, offered periodically)

Classical Athens was a special place. It produced works of art and theatre that are still considered cultural treasures today. Combining archaeological, art historical, and textual sources, explore the context of these great works and looks at their interaction with one another and with performances on the Morris campus today.

**ARTH 3273. Ars Otii: The Art of Roman Leisure.** (FA; 4 cr; prereq any 1xxx Arth course or #; fall, spring, offered periodically)

What did Romans do in their free time? Explore the art of daily life in ancient Rome focusing on themes and activities related to leisure. Outside the home, Romans bathed, hunted, and went to the theatre. Inside the home, they held lavish dinner parties. In all of these activities, status and social display were of central concern.

**ARTH 3281. Women and Art.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, even years)

A historical survey of women's roles as creators and patrons of the visual arts in Western European and American societies, from antiquity to the present.

**ARTH 3291. Facing the Past: Portraiture and Social History.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, spring, offered periodically)

This seminar examines functions and formats of portraits created primarily in Western Europe between 1400-1800, in order to gain greater insight as to how various social identities (such as that of husband and wife, child, friend, and freak of nature) were visually constructed and verbally interpreted.

**ARTH 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

Content and nature of the course to be determined by faculty and student consultation. May include individual research and writing, working in relation to the Art Gallery program, or travel and study.

**ARTH 4810. Practicum in Art History Pedagogy.** (1-4 cr [max 8 cr];

prereq #, which requires an Arth major or minor or double-major, must already have taken the 1xxx-level Arth course that they wish to complete this practicum in conjunction with; S-N only; fall, spring, every year)

An individualized, hands-on, guided study of the process of teaching Art History. As part of a formal affiliation with an Arth course, the student undertakes selected learning activities under supervision of the course instructor such as discussion group leader, test review leader, research assistant, and/or other teaching-related activities.

**ARTH 4901. Capstone Assessment of Student Experience in Art History.** (1 cr; S-N or Audit; prereq Arth major, #; fall, spring, every year)

Allows students majoring in art history to reflect on the connections among the different courses and experiences they have had in the discipline by compiling a portfolio of their work, writing a short paper, and discussing their experiences with the faculty and other majors.

**ARTH 4993. Directed Study.** (1-5 cr [max 10 cr]; prereq any 1xxx Arth course or jr status fall, spring, every year)

Content and nature of the course to be determined by faculty and student consultation. May include individual research and writing, working in relation to the Art Gallery program, or travel and study.

## Art, Studio (ARTS)

### *Division of the Humanities*

Studio art includes studies in the traditional areas of the visual arts, as well as in contemporary concerns and techniques. Students are introduced to the skills of critical analysis of works of art and to a variety of media and approaches to their use. In addition, the discipline supports co-curricular activities, including the UMM Student Art Club, student exhibitions, and guest speakers.

#### **Objectives:**

1. Students will be introduced to the technical skills necessary to activities in the visual arts; this includes materials, techniques, the safe use of tools, and the safe disposal of waste.
2. Students will be introduced to the concepts necessary to activities in the visual arts; this includes the formal elements of art, as well as learning to think independently, understanding the historical and contemporary development of art and their place in it, the relationship of art to self, culture, and society, and to question and examine everything with a critical eye.

- Students will be introduced to verbal / communication skills necessary to activities in the visual arts; this includes the ability to talk clearly and thoughtfully about their own art as well as the art of others.
- Students will be introduced to the major traditions of art and the place of visual arts in our culture.

## Art, Studio Major

Studio courses are assessed an individual lab fee.

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

Basic studio is preparation for advanced work in studio art. The three related parts must be taken concurrently and in sequence during the first year. One 1xxx art history course is also recommended during the first year.

### First Term of Basic Studio

ARTS 1101—Basic Studio Drawing I [ART/P] (2 cr)  
with ARTS 1103—Basic Studio 2-D Design [ART/P] (2 cr)  
with ARTS 1105—Basic Studio Discussion I [ART/P] (1 cr)

### Second Term of Basic Studio

ARTS 1102—Basic Studio Drawing II [ART/P] (2 cr)  
with ARTS 1104—Basic Studio 3-D Design [ART/P] (2 cr)  
with ARTS 1106—Basic Studio Discussion II [ART/P] (1 cr)

### Second Year Drawing

ARTS 2101—Drawing From Life I [ART/P] (3 cr)  
ARTS 2102—Drawing From Life II [ART/P] (3 cr)  
Second Year Portfolio Review

### Senior Thesis Project

ARTS 4902—Senior Thesis Project I (2 cr)  
ARTS 4903—Senior Thesis Project II (1 cr)

### Concentrated Studio Art Courses—First Medium

#### Printmaking

*complete 12 credits*  
ARTS 3200—Printmaking Studio I [ART/P] (3 cr)  
ARTS 3210—Printmaking Studio II [ART/P] (3 cr)

#### or Painting

*complete 12 credits*  
ARTS 3300—Painting Studio I [ART/P] (3 cr)  
ARTS 3310—Painting Studio II [ART/P] (3 cr)

#### or Sculpture

*complete 12 credits*  
ARTS 3400—Sculpture Studio I [ART/P] (3 cr)  
ARTS 3410—Sculpture Studio II [ART/P] (3 cr)

#### or Ceramics

*complete 12 credits*  
ARTS 1050—Beginning Ceramics [ART/P] (3 cr)  
ARTS 3650—Advanced Ceramics [ART/P] (3 cr)

#### or Drawing

*complete 12 credits*  
ARTS 3100—Advanced Drawing I [ART/P] (3 cr)  
ARTS 3110—Advanced Drawing II [ART/P] (3 cr)

#### or Photography/Digital Imaging

*complete 12 credits*  
ARTS 3500—Photographic and Digital Processes I [ART/P] (3 cr)  
ARTS 3510—Photographic and Digital Processes II [ART/P] (3 cr)

### Concentrated Studio Art Courses—Second Medium

The medium chosen must be different from first medium

#### Printmaking

*complete 6 credits*  
ARTS 3200—Printmaking Studio I [ART/P] (3 cr)  
ARTS 3210—Printmaking Studio II [ART/P] (3 cr)

#### or Painting

*complete 6 credits*  
ARTS 3300—Painting Studio I [ART/P] (3 cr)  
ARTS 3310—Painting Studio II [ART/P] (3 cr)

#### or Sculpture

*complete 6 credits*  
ARTS 3400—Sculpture Studio I [ART/P] (3 cr)  
ARTS 3410—Sculpture Studio II [ART/P] (3 cr)

#### or Ceramics

*complete 6 credits*  
ARTS 1050—Beginning Ceramics [ART/P] (3 cr)  
ARTS 3650—Advanced Ceramics [ART/P] (3 cr)

#### or Drawing

*complete 6 credits*  
ARTS 3100—Advanced Drawing I [ART/P] (3 cr)  
ARTS 3110—Advanced Drawing II [ART/P] (3 cr)

#### or Photography/Digital Imaging

*complete 6 credits*  
ARTS 3500—Photographic and Digital Processes I [ART/P] (3 cr)  
ARTS 3510—Photographic and Digital Processes II [ART/P] (3 cr)

### Elective Courses

An additional 15 credits in art, studio (exclusive of those used to meet required courses) and art history. Art, studio electives can be selected from any medium above or the following:

#### Art Studio Electives

*Take 3 or more credits from the following:*

ARTS 3002—Media Studies: Artist's Books [ART/P] (3 cr)  
ARTS 3004—Media Studies: Mural Project and Public Art [ART/P] (3 cr)  
ARTS 3006—Media Studies: Feminist Art: A Studio Perspective [ART/P] (3 cr)  
ARTS 3007—Media Studies: Printmaking [ART/P] (3 cr)  
ARTS 3012—Media Studies: Ceramics [ART/P] (3 cr)  
ARTS 3013—Media Studies: Painting [ART/P] (3 cr)  
ARTS 2xxx, 3xxx, 4xxx

#### Art History Electives

*Take 12 or more credits from the following:*

ARTH 1101—Principles of Art [FA] (4 cr)  
ARTH 1111—Ancient to Medieval Art [FA] (4 cr)  
ARTH 1121—Renaissance to Modern Art [FA] (4 cr)  
ARTH 2102—Art and Archaeology of Ancient Greece [FA] (4 cr)  
ARTH 2103—Art and Archaeology of Ancient Rome [FA] (4 cr)  
ARTH 3112—Art and the Byzantine Empire [FA] (4 cr)  
ARTH 3113—Early Islamic Art and Culture [FA] (4 cr)  
ARTH 3142—Art of the Italian Renaissance, 1300-1520 [FA] (4 cr)  
ARTH 3161—16th-Century Italian Art [FA] (4 cr)  
ARTH 3171—Baroque Art [FA] (4 cr)  
ARTH 3191—American Art to 1900 [FA] (4 cr)  
ARTH 3201—19th-Century European Art through Post-Impressionism [FA] (4 cr)  
ARTH 3211—Early Modernist Art: Symbolism to Surrealism [FA] (4 cr)  
ARTH 3221—American Art from the End of Modernism to the Postmodern Present [FA] (4 cr)  
ARTH 3231—History of Photography [FA] (4 cr)  
ARTH 3241—African American Art [FA] (4 cr)  
ARTH 3261—Chinese Art [FA] (4 cr)  
ARTH 3281—Women and Art [FA] (4 cr)  
ARTH 3291—Facing the Past: Portraiture and Social History [FA] (4 cr)  
ARTH 1xxx, 2xxx, 3xxx

## Studio Art Minor

Studio courses are assessed an individual lab fee.

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota

coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

Basic studio is preparation for advanced work in studio art. The three related parts must be taken concurrently and in sequence during the first year. One 1xxx art history course is also recommended during the first year.

#### First Term of Basic Studio

ARTS 1101–Basic Studio Drawing I [ART/P] (2 cr)  
with ARTS 1103–Basic Studio 2-D Design [ART/P] (2 cr)  
with ARTS 1105–Basic Studio Discussion I [ART/P] (1 cr)

#### Second Term of Basic Studio

ARTS 1102–Basic Studio Drawing II [ART/P] (2 cr)  
with ARTS 1104–Basic Studio 3-D Design [ART/P] (2 cr)  
with ARTS 1106–Basic Studio Discussion II [ART/P] (1 cr)

#### Drawing

ARTS 2101–Drawing From Life I [ART/P] (3 cr)  
ARTS 2102–Drawing From Life II [ART/P] (3 cr)

#### Concentrated Studio Art Courses

Complete one 12-credit sequence in one major medium or two 6-credit sequences in different media.

#### A Single 12-Credit Sequence

##### Printmaking

Take exactly 12 credits from the following:

ARTS 3200–Printmaking Studio I [ART/P] (3 cr)  
ARTS 3210–Printmaking Studio II [ART/P] (3 cr)

##### or Painting

Take exactly 12 credits from the following:

ARTS 3300–Painting Studio I [ART/P] (3 cr)  
ARTS 3310–Painting Studio II [ART/P] (3 cr)

##### or Sculpture

Take exactly 12 credits from the following:

ARTS 3400–Sculpture Studio I [ART/P] (3 cr)  
ARTS 3410–Sculpture Studio II [ART/P] (3 cr)

##### or Ceramics

Take exactly 12 credits from the following:

ARTS 1050–Beginning Ceramics [ART/P] (3 cr)  
ARTS 3650–Advanced Ceramics [ART/P] (3 cr)

##### or Drawing

Take exactly 12 credits from the following:

ARTS 3100–Advanced Drawing I [ART/P] (3 cr)  
ARTS 3110–Advanced Drawing II [ART/P] (3 cr)

##### or Photography/Digital Imaging

Take exactly 12 credits from the following:

ARTS 3500–Photographic and Digital Processes I [ART/P] (3 cr)  
ARTS 3510–Photographic and Digital Processes II [ART/P]  
(3 cr)

#### or Two 6-Credit Sequences

Take 2 or more sub-requirements(s) from the following:

##### Printmaking

Take exactly 6 credits from the following:

ARTS 3200–Printmaking Studio I [ART/P] (3 cr)  
ARTS 3210–Printmaking Studio II [ART/P] (3 cr)

##### Painting

Take exactly 6 credits from the following:

ARTS 3300–Painting Studio I [ART/P] (3 cr)  
ARTS 3310–Painting Studio II [ART/P] (3 cr)

##### Sculpture

Take exactly 6 credits from the following:

ARTS 3400–Sculpture Studio I [ART/P] (3 cr)  
ARTS 3410–Sculpture Studio II [ART/P] (3 cr)

##### Ceramics

Take exactly 6 credits from the following:

ARTS 1050–Beginning Ceramics [ART/P] (3 cr)  
ARTS 3650–Advanced Ceramics [ART/P] (3 cr)

#### Drawing

Take exactly 6 credits from the following:

ARTS 3100–Advanced Drawing I [ART/P] (3 cr)  
ARTS 3110–Advanced Drawing II [ART/P] (3 cr)

#### Photography/Digital Imaging

Take exactly 6 credits from the following:

ARTS 3500–Photographic and Digital Processes I [ART/P] (3 cr)  
ARTS 3510–Photographic and Digital Processes II [ART/P] (3 cr)

#### Teacher Preparation Requirements

Students seeking teaching licensure in visual arts K–12 should refer to the Education, Secondary (SeEd) section of this catalog.

## Art, Studio Course Descriptions

**ARTS 1001. Visual Studies for Non-Majors: Drawing.** (ART/P; 3 cr [max 6 cr]; =[ARTS 1070, ARTS 1080]; no elective cr for ArtS majors or minors; fall, spring, offered periodically)

For nonmajors with little or no experience in drawing. Exploration of observational drawing skills through line work in contour and gesture, continuing with studies in value, texture, and space. Contemporary and traditional modes of drawing explored using a variety of materials.

**ARTS 1002. Visual Studies for Non-Majors: Digitally Assisted Design.** (ART/P; 3 cr [max 6 cr]; no elective cr for ArtS majors or minors; materials fee required; fall, spring, offered periodically) Development of skills necessary to produce digital imagery, including fundamental aesthetic concerns (composition, color theory, mark-making, etc.) and knowledge of digital media with emphasis on the technical, conceptual, aesthetic, and ethical aspects of digital imaging as an artistic medium.

**ARTS 1003. Visual Studies for Non-Majors: Beginning Painting.**

(ART/P; 3 cr [max 6 cr]; no elective cr for ArtS majors or minors; materials fee required; fall, spring, offered periodically)

The development of painting as a means of artistic expression including basic technical, material, and formal compositional problems. For nonmajors with little or no previous experience in painting.

**ARTS 1004. Visual Studies for Non-Majors: Printmaking.** (ART/P; 3 cr [max 6 cr]; no elective cr for ArtS majors or minors; materials fee required; fall, spring, offered periodically)

Development of skills necessary to produce imagery using printmaking as a means of expression, including the development of fundamental aesthetic concerns (composition, color theory, mark-making, etc.). For non-majors with little or no studio experience.

**ARTS 1005. Visual Studies for Non-Majors: Photography.** (ART/P; 3 cr [max 6 cr]; no elective cr for ArtS majors or minors; materials fee required; fall, spring, offered periodically)

Development of skills necessary to produce imagery using black and white photography as a means of expression, including an introduction to processes, materials, brief history, and critical skills to evaluate photographs. Students must provide their own 35 mm cameras. For nonmajors with little or no studio experience.

**ARTS 1050. Beginning Ceramics.** (ART/P; 3 cr [max 6 cr]; materials fee required; fall, every year)

Personal expression through the medium of clay. Topics include forming methods using stoneware and porcelain (hand building and wheel techniques), glazing, the nature of clay, glaze chemistry, firing, and kilns.

**ARTS 1101. Basic Studio Drawing I.** (ART/ P; 2 cr; prereq coreq 1103, 1105; materials fee required; one 1xxx ArtH course recommended during the same year; fall, every year)

Preparation for advanced work in studio art. Basic exercises of drawing, use and exploration of materials and methods in line and form development, problems of spatial representation.

**ARTS 1102. Basic Studio Drawing II.** (ART/ P; 2 cr; prereq 1101, coreq 1104, 1106; one 1xxx ArtH course recommended during the same year; materials fee required; spring, every year)

Preparation for advanced work in studio art. Basic exercises of drawing, use and exploration of materials and methods in line and form development, problems of spatial representation.

**ARTS 1103. Basic Studio 2-D Design.** (ART/ P; 2 cr; prereq coreq 1101, 1105; one 1xxx ArtH course recommended during the same year; materials fee required; fall, every year)

Preparation for advanced work in studio art. Elements of two-dimensional design and color theory, introduction to painting and printmaking.



**ARTS 1104. Basic Studio 3-D Design.** (ART/ P; 2 cr; prereq 1103, coreq 1102, 1106; one 1xxx ArH course recommended during the same year; materials fee required; spring, every year)  
Preparation for advanced work in studio art. Elements of three-dimensional design, introduction to sculpture.

**ARTS 1105. Basic Studio Discussion I.** (ART/P; 1 cr; prereq coreq 1101, 1103; one 1xxx ArH course recommended during the same year; fall, every year)  
Preparation for advanced work in studio art. Theories, philosophy, history of visual arts, contemporary trends in art, selected readings.

**ARTS 1106. Basic Studio Discussion II.** (ART/P; 1 cr; prereq 1105, coreq 1102, 1104; one 1xxx ArH course recommended during the same year; spring, every year)  
Preparation for advanced work in studio art. Theories, philosophy, history of visual arts, contemporary trends in art, selected readings.

**ARTS 1300. Watercolor Painting.** (ART/P; 3 cr; materials fee required; fall, spring, offered periodically)  
An introduction to various painting techniques in watercolor.

**ARTS 1606. Film Studies and The Creative Process.** (ART/P; 3 cr; students need a device capable of recording video, like a smart phone or similar device; materials fee required; fall, spring, every year)  
Develops students' abilities to understand the construction of films and prepares students for film and video production. Focuses on major international movements in the history of documentary, fiction, or experimental film and video. Students create short videos linked to their understanding of the technologies, cinematic techniques, and the theoretical framework of films in these movements.

**ARTS 1801. Mural Project and Public Art.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Understanding and exploration of contemporary mural art through reading, writing, and production of art. Collaborative production of a large-scale painted mural in a public setting. Designed for students who have a working knowledge of the basic principles and skills of art such as drawing, 2D and 3D design, composition, and color theory.

**ARTS 1802. 2D Studies in Printmaking.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Introduces two-dimensional design concerns through the study of traditional printmaking techniques. Referencing the rich history of socially engaged printmaking as a guide for their own creative process, students learn how to visually express their own ideas related to contemporary social, political, and environmental concerns.

**ARTS 1900. Fashion Trashion: Where Style Meets Sustainability.** (ART/P; 1 cr [max 3 cr]; students must participate in spring runway show in April, held in the evening; materials fee required; spring, every year)  
Studies in fashion, sustainability, and artistic performance culminating in a final project to design and complete a wearable item from recycled, repurposed, and reimaged items for display in a group runway fashion show.

**ARTS 2101. Drawing From Life I.** (ART/P; 3 cr; prereq major or minor or #; materials fee required; fall, every year)  
Via the study of human anatomy, the course increases and improves students' knowledge and skill in drawing as a traditional art form and as a preparation for work in other media.

**ARTS 2102. Drawing From Life II.** (ART/P; 3 cr; prereq 2101 recommended; materials fee required; spring, every year)  
Allows students to use skills previously gained that relate to drawing the human form in a more individual way, integrates those skills with new ideas, and explores experimental drawing directions.

**ARTS 3002. Media Studies: Artist's Books.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or #; materials fee required; fall, spring, offered periodically)  
Personal expression through artist's books. Designed for students who have a working knowledge of the basic principles and skills of art such as drawing, 2D and 3D design, composition, and color theory.

**ARTS 3004. Media Studies: Mural Project and Public Art.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or #; materials fee required; fall, spring, offered periodically)  
Understanding and exploration of contemporary mural art through reading, writing, and production of art. Collaborative production of a large-scale painted mural in a public setting. Designed for students who have a working knowledge of the basic principles and skills of art such as drawing, 2D and 3D design, composition, and color theory.

**ARTS 3006. Media Studies: Feminist Art: A Studio Perspective.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or #; materials fee required; fall, spring, offered periodically)  
The impact of the women's movement of the 1970s on contemporary art. Exploration of the notion of "women's work" as a studio practice; the materials, methods, and issues that define feminist work.

**ARTS 3007. Media Studies: Printmaking.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or #; materials fee required; fall, spring, offered periodically)  
Study of and practice in various contemporary methods of printmaking: application of drawing skills, color, composition, and personal expression to alternative printmaking techniques.

**ARTS 3012. Media Studies: Ceramics.** (ART/ P; 3 cr [max 9 cr]; prereq major or minor in ArtS; materials fee required; fall, spring, offered periodically)  
Study of and practice in specialized methods and techniques in ceramics not covered under the regular curriculum.

**ARTS 3013. Media Studies: Painting.** (ART/ P; 3 cr [max 9 cr]; prereq ArtS major or minor; materials fee required; fall, spring, offered periodically)  
Study of and practice in various contemporary methods in painting: application of drawing skills, color, composition, and personal expression to alternative painting techniques.

**ARTS 3014. Media Studies: Fabric as Form.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or #; materials fee required; fall, spring, summer, offered periodically)  
Focus on the possibilities of fabric as the primary medium in art making. Topics include processes and using fabric to construct independent forms.

**ARTS 3100. Advanced Drawing I.** (ART/ P; 3 cr [max 9 cr]; prereq 2101, 2102 recommended; materials fee required; fall, every year)  
Continued development of the skills and understandings required by traditional problems of drawing.

**ARTS 3110. Advanced Drawing II.** (ART/P; 3 cr [max 9 cr]; prereq 2101, 2102; 3100 recommended; materials fee required; spring, every year)  
Emphasizes self-direction, experimental approaches and materials, and study of contemporary concepts.

**ARTS 3200. Printmaking Studio I.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or # for nonmajor jrs and srs; materials fee required; fall, every year)  
Study of and practice in various methods of printmaking: application of drawing skills, color, composition, and personal expression to printmaking techniques.

**ARTS 3210. Printmaking Studio II.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or # for nonmajor jrs and srs; materials fee required; spring, every year)  
Study of and practice in various methods of printmaking: application of drawing skills, color, composition, and personal expression to printmaking techniques.

**ARTS 3300. Painting Studio I.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or # for nonmajor jrs and srs; materials fee required; fall, every year)  
The development of painting as a means of artistic expression including basic technical, material, and formal compositional problems.

**ARTS 3310. Painting Studio II.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or # for nonmajor jrs and srs; materials fee required; spring, every year)  
The development of painting as a means of artistic expression including basic technical, material, and formal compositional problems.

**ARTS 3400. Sculpture Studio I.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or # for nonmajor jrs and srs; materials fee required; fall, every year)  
Exploration of sculpture as a means of artistic expression, including an introduction to the planning and construction of three-dimensional forms using both traditional and contemporary techniques.

**ARTS 3410. Sculpture Studio II.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or # for nonmajor jrs and srs; materials fee required; spring, every year)  
Exploration of sculpture as a means of artistic expression, including an introduction to the planning and construction of three-dimensional forms using both traditional and contemporary techniques.

**ARTS 3500. Photographic and Digital Processes I.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or #; materials fee required; fall, every year)  
The development of photographic and digital processes as a means of

artistic expression including basic technical, material, and formal compositional problems.

**ARTS 3510. Photographic and Digital Processes II.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or #; materials fee required; spring, every year)

The development of photographic and digital processes as a means of artistic expression including basic technical, material, and formal compositional problems.

**ARTS 3650. Advanced Ceramics.** (ART/P; 3 cr [max 9 cr]; prereq 1050 or #; materials fee required; fall, spring, offered periodically)

For students who have a working knowledge of basic forming and glazing techniques. Emphasis on advanced hand building and wheel techniques, critiques, glaze experiments, and firing. Assigned projects for the course may vary from semester to semester.

**ARTS 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ARTS 4902. Senior Thesis Project I.** (2 cr; A-F only; prereq senior Arts major, completion of Second Year Portfolio Review; materials fee required; fall, every year)

A two-semester sequential capstone course for majors, with a focus on the planning and preparation of a senior exhibit and the investigation of other professional skills. Group seminars include portfolio presentation, framing, interviewing, grant writing, and graduate school application. Individual creative research projects focus on development of a thesis and slide talk to accompany the final body of work exhibited in the HFA Gallery during the spring semester. Students participate in a portfolio review by the studio art and art history faculty, concentrating on work from the major medium and other work completed since the Second-Year Portfolio Review. Time of the review is arranged through the discipline coordinator.

**ARTS 4903. Senior Thesis Project II.** (1 cr; A-F only; prereq 4902; materials fee required; spring, every year)

A two-semester sequential capstone course for majors, with a focus on the planning and preparation of a senior exhibit and investigation of other professional skills. Students continue to develop and refine the thesis, slide lecture, and install work in the HFA Gallery during the spring semester for the Senior Exhibit.

**ARTS 4993. Directed Study.** (1-5 cr [max10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Biology (BIOL)

### *Division of Science and Mathematics*

The biology curriculum is designed to provide students with biological knowledge and to develop scientific skills as part of their liberal arts education. Included in those skills are the abilities to conduct and interpret scientific research and to successfully communicate scientific information both verbally and in writing. The faculty believe these objectives can best be attained through a balanced core curriculum in biology and a diverse array of elective coursework, both of which include active lab and field experiences. The biology major prepares students for graduate or professional programs and for careers such as secondary biology education, government service, or private sector employment. The biology discipline also offers a variety of 10XX courses that are designed specifically for students seeking to fulfill general education requirements in science.

### Biology Major

Courses may not be taken S-N unless offered S-N only. Up to 5 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B in the major. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Biology majors are advised to complete their chemistry and mathematics requirements as early as possible. All majors should have their programs approved by a biology adviser by the beginning of their junior year.

### Required Courses

BIOL 1111–Fundamentals of Genetics, Evolution, and Development [SCI] (3 cr)  
 BIOL 2101–Evolution of Biodiversity [SCI-L] (4 cr)  
 BIOL 2111–Cell Biology [SCI-L] (4 cr)  
 BIOL 3121–Molecular Biology [SCI-L] (5 cr)  
 BIOL 3131–Ecology [SCI-L] (4 cr)  
 BIOL 3700–Biological Communication I (1 cr)  
 BIOL 3701–Biological Communication II (1 cr)  
 BIOL 4901–Senior Seminar (1 cr)  
 CHEM 1101–General Chemistry I [SCI-L] (5 cr)  
 CHEM 1102–General Chemistry II [SCI-L] (5 cr)  
 CHEM 2301–Organic Chemistry I [SCI] (4 cr)  
 CHEM 2311–Organic Chemistry Lab I (1 cr)  
 MATH 1021–Survey of Calculus [M/SR] (4 cr)  
 or MATH 1101–Calculus I [M/SR] (5 cr)  
 STAT 1601–Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601–Statistical Methods [M/SR] (4 cr)

### Elective Courses

*Take 16 or more credits from the following:*

#### Organismal Electives

*Take 1 or more courses from the following:*

BIOL 4071–Flora of Minnesota (4 cr)  
 BIOL 4111–Microbiology (4 cr)  
 BIOL 4121–Herpetology (4 cr)  
 BIOL 4131–Vertebrate Natural History (4 cr)  
 BIOL 4151–Entomology (4 cr)  
 BIOL 4172–Plant Systematics (4 cr)  
 BIOL 4301–Plant Biology (4 cr)  
 GEOL 3111–Introduction to Paleontology [SCI-L] (4 cr)

#### Non-Organismal Electives

*Take 0 or more courses from the following:*

BIOL 4003–Neurobiology (4 cr)  
 BIOL 4103–Cancer Biology (4 cr)  
 BIOL 4122–Virology (4 cr)  
 BIOL 4161–Evolution (4 cr)  
 BIOL 4181–Developmental Biology (4 cr)  
 BIOL 4191–Freshwater Biology (4 cr)  
 BIOL 4211–Biochemistry (4 cr)  
 BIOL 4231–Immunology (4 cr)  
 BIOL 4311–Conservation Genetics (4 cr)  
 BIOL 4312–Genetics (4 cr)  
 BIOL 4321–Animal Physiology (4 cr)  
 BIOL 4332–Ecology of Agriculture and Forestry [ENVT] (4 cr)  
 BIOL 4333–Biogeochemistry and Global Change (4 cr)  
 BIOL 4351–Conservation Biology (4 cr)  
 BIOL 4611–Biochemistry Lab (1 cr)

#### Other Electives

*Take 0–1 course from the following:*

PSY 3211–Biological Psychology [SCI-L] (5 cr)  
 PSY 3201–Comparative Psychology [SCI-L] (4 cr)

## Biology Minor

Courses required for the minor may not be taken S-N. Up to 5 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B in the minor. The GPA in these courses must be at least 2.00.

### Minor Core Curriculum

BIOL 1111–Fundamentals of Genetics, Evolution, and Development [SCI] (3 cr)  
 BIOL 2101–Evolution of Biodiversity [SCI-L] (4 cr)  
 BIOL 2111–Cell Biology [SCI-L] (4 cr)  
 CHEM 1101–General Chemistry I [SCI-L] (5 cr)  
 CHEM 1102–General Chemistry II [SCI-L] (5 cr)

### Elective Courses

*Take 2 or more courses from the following:*

BIOL 3121–Molecular Biology [SCI-L] (5 cr)  
 BIOL 3131–Ecology [SCI-L] (4 cr)  
 BIOL 4003–Neurobiology (4 cr)

BIOL 4103—Cancer Biology (4 cr)  
 BIOL 4111—Microbiology (4 cr)  
 BIOL 4121—Herpetology (4 cr)  
 BIOL 4122—Virology (4 cr)  
 BIOL 4131—Vertebrate Natural History (4 cr)  
 BIOL 4151—Entomology (4 cr)  
 BIOL 4161—Evolution (4 cr)  
 BIOL 4172—Plant Systematics (4 cr)  
 BIOL 4181—Developmental Biology (4 cr)  
 BIOL 4191—Freshwater Biology (4 cr)  
 BIOL 4211—Biochemistry (4 cr)  
 BIOL 4231—Immunology (4 cr)  
 BIOL 4301—Plant Biology (4 cr)  
 BIOL 4311—Conservation Genetics (4 cr)  
 BIOL 4312—Genetics (4 cr)  
 BIOL 4321—Animal Physiology (4 cr)  
 BIOL 4332—Ecology of Agriculture and Forestry [ENVT] (4 cr)  
 BIOL 4333—Biogeochemistry and Global Change (4 cr)  
 BIOL 4351—Conservation Biology (4 cr)

Or choose not more than one of the following non-biology electives:  
 PSY 3211—Biological Psychology [SCI-L] (5 cr)  
 or PSY 3201—Comparative Psychology [SCI-L] (4 cr)  
 or GEOL 3111—Introduction to Paleontology [SCI-L] (4 cr)

### Teacher Preparation Requirements

Students seeking teaching licensure in life science 9–12 should refer to the Education, Secondary (SeEd) section of this catalog.

## Biology Course Descriptions

**BIOL 1002. Human Nutrition.** (SCI; 3 cr; no elective cr for biol majors or minors; spring, every year)

Nutrients essential to human life and well-being. Digestion, absorption, and metabolism of nutrients. Changes in metabolism during disease. Nutrients and their roles. Sports nutrition, weight loss/gain diets, nutritional myths. (two 65-min lect)

**BIOL 1051. Wildlife Biology.** (SCI-L; 4 cr; =[BIOL 1801]; no elective cr for biol majors or minors; fall, spring, offered periodically)

Biological principles and practices illustrated through studies of North American wildlife. Wildlife taxonomy, identification, migration and dispersal, ecological relationships, contemporary problems associated with human activities. (two 65-min lect, one 120-180 min lab/field study)

**BIOL 1052. Introduction to Conservation Biology.** (SCI-L; 4 cr; no elective cr for biol majors or minors; spring, offered periodically)

Survey of topics in conservation biology, with emphasis on topics that have created controversy and debate: loss of biodiversity; endangered species preservation and management, habitat conservation, environmental degradation, and sustainable development. (two 65-min lect, one 120-or 180-min lab or field study)

**BIOL 1053. Introduction to Insect Biology.** (SCI-L; 4 cr; no elective cr for biol majors or minors; summer, offered periodically)

Basic concepts in insect biology including evolutionary history, life-cycles, classification, and ecology; examination of how insects and other arthropods interact with human society including insects as vectors of human disease, forensic entomology, insects in agriculture, beneficial uses of insects in the production of food and fiber, and insect-inspired art and literature. (one all-day field trip required in addition to labs)

**BIOL 1071. Plants of Minnesota.** (SCI-L; 4 cr; no elective cr for biol majors or minors; summer, offered periodically)

Introduction to plant structure and function, especially those found in Minnesota: ecology, physiology, evolution, and conservation. Labs emphasize plant identification and anatomy.

**BIOL 1111. Fundamentals of Genetics, Evolution, and Development.** (SCI; 3 cr; prereq biol major/minor or chem major or any health sciences preprofessional program or EIEd or SeEd major with middle school science specialties or #; fall, spring, every year)

Introduction to scientific methods and the history of biology, with an emphasis on mechanisms of inheritance, development, and descent with modification. Overview of pre-Darwinian scientific thought; the theory of evolution; a qualitative introduction to genetics and molecular biology; and a summary of developmental biology. (two 75-min lect)

**BIOL 1801. The Animals Around Us: Wildlife of Minnesota.** (IC; 4 cr; =[BIOL 1051]; semester of enrollment at UMM; fall, offered periodically)  
 Discussion and examination of basic biological principles illustrated through studies of North American wildlife. Topics include movements and

migration, behavior, conservation, and ecological relationships. Students research and discuss wildlife-related issues, and work together to learn how to identify species found in Minnesota. At least one field trip to observe local wildlife; additional field trips, time and weather permitting. (two 65-min lect, one 180-min lab or field study)

**BIOL 2101. Evolution of Biodiversity.** (SCI-L; 4 cr; prereq 1101 or 1111 or #; spring, every year)

Analysis of evolutionary trends using historical and contemporary evidence. Principles of classification and phylogenetic reconstruction. Includes laboratory survey of the major groups of organisms. (two 65-min lect, one 180-min lab)

**BIOL 2102. Human Anatomy.** (3 cr; =[SSA 2102]; prereq soph; no elective cr for biol majors or minors; fall, every year)

Same as SSA 2102. Structure of human systems at their organ and cellular level. (two 65-min lect, one 120-min lab)

**BIOL 2103. Introduction to Human Physiology.** (SCI; 4 cr; prereq 2102 or SSA 2102 or #; no elective cr for biol majors or minors; spring, every year)

Function of human systems at organ, cell, and molecular levels. (three 65-min lect)

**BIOL 2111. Cell Biology.** (SCI-L; 4 cr; prereq 1101 or 1111, Chem 1102 or #; fall, every year)

Cell structure and function. Includes topics pertaining to the chemistry, physiology, structure, and reproduction of plant and animal cells. (three 65-min lect and one 120-min lab)

**BIOL 3121. Molecular Biology.** (SCI-L; 5 cr; prereq 2111, Chem 2301 or #; fall, spring, every year)

Principles and mechanisms of DNA function, protein synthesis, and gene regulation in prokaryotes and eukaryotes. Genetic engineering and evolution at the molecular level. (two 100-min lect, 180-min lab, additional lab time arranged)

**BIOL 3131. Ecology.** (SCI-L; 4 cr; prereq Biol 2101 or EnSt 2101, Stat 1601 or 2601, or #; fall, every year)

Basic principles and models of population biology, community structure and function, and ecosystem dynamics. Lab exercises emphasize field work, techniques for characterizing local plant and animal communities, and experimental investigation of topics such as competition and behavioral ecology. (two 65-min lect, one 180-min lab and field study; weekend field trip required)

**BIOL 3700. Biological Communication I.** (1 cr; prereq Biol 2101, 2111; fall, spring, every year)

Finding and utilizing sources of biological information. Modern techniques for searching the biological literature, as well as reading technical written and oral communication in biology.

**BIOL 3701. Biological Communication II.** (1 cr; prereq 3700, #; fall, spring, every year)

Writing, editing, and revising an extensive review paper on a biological topic under the mentorship of a faculty member. Multiple drafts and revisions are expected.

**BIOL 4003. Neurobiology.** (4 cr; prereq 2111; fall, offered periodically)

Survey of general principles of neuronal function and formation. Emphasis on comparative aspects of simple nervous systems.

**BIOL 4071. Flora of Minnesota.** (4 cr; prereq Biol 2101; summer, offered periodically)

Identification, ecology, and conservation of vascular plants found in Minnesota. Labs and field trips emphasize plant identification and anatomy.

**BIOL 4103. Cancer Biology.** (4 cr; A-F only; prereq 2111; spring, offered periodically)

Examining cancer processes from a genetic, molecular, and developmental perspective, identifying the cellular events behind uncontrolled growth and metastasis, cell cycle control, apoptosis, and cell signaling and signal transduction. Exploring genetic and environmental factors that can induce cancers.

**BIOL 4111. Microbiology.** (4 cr; prereq 2111, prereq or coreq 3121 or #; spring, every year)

The biology of pathogenesis and the treatment and prevention of infectious disease. Emphasis on prokaryotic microbes and viruses. (two 65-min lect, one 180-min lab)

**BIOL 4121. Herpetology.** (4 cr; prereq Biol 2101 or EnSt 2101 or #; spring, even years)

Survey of amphibians and reptiles, including their evolution, systematics, identification, behavior, ecological relationships, and contemporary

problems associated with human activities. (two 65-min lect, one 180-min lab or field study)

**BIOL 4122. Virology.** (4 cr; prereq 3121 or #; spring, even years)  
An overview of virus biology. Consider evolutionary origins of viruses and compare structure, genome organization, replication strategies, and other features of common and unique viruses. (two 100-min lect)

**BIOL 4131. Vertebrate Natural History.** (4 cr; prereq Biol 2101 or EnSt 2101 or #; spring, odd years)  
Survey of vertebrates, including their evolution, systematics, and ecological relationships. (two 65-min lect, one 180-min lab or field study)

**BIOL 4151. Entomology.** (4 cr; prereq Biol 2101 or EnSt 2101 or #; fall, even years)  
Structure, life histories, habits, and classification of common families of insects, including their economic significance. (two 65-min lect, 180-min lab)

**BIOL 4161. Evolution.** (4 cr; prereq Biol 2101, 2111 or #; spring, even years)  
Survey of the history, evidence, and mechanisms of organic evolution. (three 65-min lect)

**BIOL 4172. Plant Systematics.** (4 cr; prereq 2101 or EnSt 2101 or #; spring, odd years)  
Survey of vascular plant taxa, with an emphasis on the flowering plant families and their evolutionary relationships. Lab emphasizes use of keys for identification of Midwestern plant families and genera. (two 65-min lect, 180-min lab)

**BIOL 4181. Developmental Biology.** (4 cr; prereq 2111; 4312 recommended; fall, spring, offered periodically)  
Survey of general concepts in developmental biology, emphasizing molecular mechanisms of positional information, pattern formation, and cellular interactions. Stresses comparative aspects of developmental processes, and the role of development in evolution. (two 65-min lectures, one 180-min lab)

**BIOL 4191. Freshwater Biology.** (4 cr; prereq Biol 2101 or EnSt 2101, 2111 and prereq or coreq Stat 1601 or 2601 or #; fall, odd years)  
Structure, function, and biota of freshwater ecosystems, including lakes, streams, and wetlands. Lab emphasizes independent research and field study in local habitats. (two 65-min lect, one 180-min lab; all day field trip required)

**BIOL 4211. Biochemistry.** (4 cr; prereq Chem 2302 or Chem 2304, prereq or coreq Biol 3121, or #; fall, every year)  
Structures, functions, and biochemical transformations of proteins, carbohydrates, and lipids. (three 65-min lect) Optional lab offered. See Biol 4611.

**BIOL 4231. Immunology.** (4 cr; prereq (or coreq) 3121 or #; spring, offered periodically)  
An introduction to the cellular and molecular aspects of immunology that are involved in health and disease. Students consider these concepts through discussion of primary literature and clinical scenarios.

**BIOL 4301. Plant Biology.** (4 cr; prereq Biol 2101, 2111 or #; fall, even years)  
Descriptive and experimental study of plants. Anatomy, development, physiology, secondary compounds, evolution, human uses of plants. (two 65-min lect, one 180-min lab)

**BIOL 4311. Conservation Genetics.** (4 cr; prereq Biol 2101 or #; Stat 1601 or 2601 recommended.; fall, offered periodically)  
Introduction to theory of population differentiation and gene flow; applications to managing and recovering rare species. Adaptive and neutral models, linkage disequilibria, effective population size, inbreeding depression, population genetic structure. Labs use computers to model genetic changes in populations and analyze genetic structure. (two 100-min lect, one 120-min lab)

**BIOL 4312. Genetics.** (4 cr; =[BIOL 3101]; prereq 2111 or #; spring, every year)  
Principles and mechanics of inheritance and variation, including cytological, organismal, and population genetics; mechanisms of evolution; and the genetic problems of humans. (two 65-min lect, 180-min lab)

**BIOL 4321. Animal Physiology.** (4 cr; prereq 2111; spring, offered periodically)  
Functions of animal structures as they relate to coping with different environmental situations. (two 65-min lect, one 120-min lab)

**BIOL 4332. Ecology of Agriculture and Forestry.** (ENVT; 4 cr; prereq 3131 or #; spring, even years)  
Global and regional aspects of agriculture, forestry, and biofuel production in the context of community and ecosystem ecology. Nutrient cycling, carbon management, biodiversity, and the ecological challenges of feeding and providing energy to 9-12 billion people in the face of global climate change. Emphasis on analysis of primary literature. Short local field trips required.

**BIOL 4333. Biogeochemistry and Global Change.** (4 cr; prereq 3131 or #; spring, odd years)  
Cycling of elements vital to life, particularly, nitrogen (N), phosphorus (P), and carbon (C). Focus on understanding the feedback between physical and ecological processes and the biologically driven coupling of nutrient cycles. Analysis of humans as drivers of change in the biogeochemistry of ecosystems. Heavy emphasis on current primary literature.

**BIOL 4351. Conservation Biology.** (4 cr; prereq Biol 2101 or EnSt 2101, coreq or prereq Biol 3131, Biol 3700 or #; fall, odd years)  
Application of demographic and genetic models to protect biodiversity, including planning for uncertainty. Population viability, inbreeding depression, contemporary evolution, design and management of reserves, and invasive species. Lab exercises include field trips and computer modeling of endangered species. (two 65-min lect, one 180-min lab)

**BIOL 4600. Practicum in Biology.** (1-2 cr [max 4 cr]; S-N only; no elective cr for biol majors or minors; fall, spring, every year)  
Supervised experience of selected activities; lab preparation/management, greenhouse care/management, animal care, curating museum/herbarium collections. Repeatable with different projects or activities.

**BIOL 4611. Biochemistry Lab.** (1 cr; prereq (or coreq) 4211; fall, every year)  
Experiments using the major separation and analytical techniques of biochemistry, including centrifugation, chromatography, electrophoresis, immunochemistry, and spectrophotometry. (one 180-minute lab)

**BIOL 4901. Senior Seminar.** (1 cr; prereq 3701, sr or #; required of all sr biology majors; full-year course begins fall sem; fall, every year)  
Seminar series on selected biological topics. Includes preparation and presentation of a seminar based on original research and/or scientific literature. Enroll in fall, continues all year.

**BIOL 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Chemistry (CHEM)

### *Division of Science and Mathematics*

Coursework in chemistry is increasingly interdisciplinary and spans analytical, inorganic, organic, and physical chemistry. Students may also pursue a degree in chemistry with a biochemistry subfield or design an interdisciplinary area of concentration encompassing chemistry and related fields. All majors must study beginning physics and calculus. Beginning chemistry courses satisfy the physical sciences component of the general education requirements.

The UMM chemistry program is approved to offer American Chemical Society (ACS) Certified Degrees. Students who wish to have their degree certified by the ACS may need to complete additional courses or work beyond the program requirements listed below. A complete description of how to complete the ACS requirements at UMM can be found on the discipline web page: [www.morris.umn.edu/academic/chemistry/courses.html](http://www.morris.umn.edu/academic/chemistry/courses.html).

Chemistry and biochemistry majors do hands-on work with chemical instrumentation and use computers in both software and hardware applications. The faculty prides itself on working closely with its students on undergraduate research projects, directed studies, and undergraduate teaching assistantships. In addition, chemistry/biochemistry majors are encouraged to complete summer research internships at university and industrial labs or at other research facilities, locally and nationally.

Degrees in chemistry/biochemistry, in addition to being an excellent preparation for industrial employment, government service, or secondary teaching, also prepare students for postgraduate work (> 60% of majors pursue postgraduate work).

**Objectives**—the chemistry discipline is designed to:

- ~ serve students from other disciplines requiring knowledge of chemistry;
- ~ advance student learning in contemporary chemistry/biochemistry at a level appropriate to undergraduates;
- ~ advance student competence in research in chemistry/biochemistry;
- ~ prepare students for postgraduate work in a variety of fields and/or for careers in industrial or clinical settings or for careers in secondary education.
- ~ prepare students for professional programs such as medicine, pharmacy, veterinary medicine, dentistry, and physician assistant.

**Learning Outcomes**—The curriculum is designed to ensure that, within the context of chemistry and biochemistry, students are able to:

- ~ demonstrate an understanding of fundamental concepts of chemistry.
- ~ solve problems using critical thinking and analytical reasoning skills including the integration of knowledge from other disciplines.
- ~ identify the objective of an experiment, conduct experiments using appropriate techniques and equipment, interpret the results, discuss the data, and draw conclusions.
- ~ communicate concepts and results effectively (oral and written), including interpersonal communication.
- ~ locate and understand literature (especially primary literature) in chemistry and scientific publications.
- ~ recognize hazards, conduct experiments in a safe, ethical and sustainable manner, and manage chemicals, including chemical wastes.
- ~ work collaboratively as part of a team.

## Chemistry Major

Courses may not be taken S-N. Up to 8 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced. Students should consult members of the chemistry faculty to plan programs of study appropriate to their interests and postgraduate goals.

General Physics (Phys 1101, 1102) is required, but Principles of Physics (Phys 1091, 1092) will be considered for substitution on a case-by-case basis via petition to the Discipline.

Students may complete a major in chemistry through one of two tracks—the standard chemistry major or the chemistry major with a biochemistry subfield.

### Required Courses

CHEM 1101—General Chemistry I [SCI-L] (5 cr)  
 CHEM 1102—General Chemistry II [SCI-L] (5 cr)  
 CHEM 2301—Organic Chemistry I [SCI] (4 cr)  
 CHEM 2311—Organic Chemistry Lab I (1 cr)  
 CHEM 3101—Analytical Chemistry [SCI-L] (4 cr)  
 CHEM 3501—Physical Chemistry I [SCI] (4 cr)  
 CHEM 3901—Chemistry Seminar I (0.5 cr)  
 CHEM 4901—Chemistry Seminar II (0.5 cr)  
 CHEM 2302—Organic Chemistry II [SCI] (4 cr)  
 or CHEM 2304—Organic Chemistry II with a Biological Emphasis [SCI] (4 cr)  
 CHEM 2321—Introduction to Research I (1 cr)  
 with CHEM 2322—Introduction to Research II (1 cr)  
 MATH 1101—Calculus I [M/SR] (5 cr)  
 MATH 1102—Calculus II [M/SR] (5 cr)

PHYS 1101—General Physics I [SCI-L] (5 cr)  
 PHYS 1102—General Physics II [SCI-L] (5 cr)

## Program Sub-plans

Students are required to complete one of the following sub-plans. (Note: The honors sub-plan does not meet this requirement. Honors students are required to complete one sub-plan plus the honors sub-plan. Please see an adviser if no honors sub-plan is listed for the program.)

### Chemistry, Standard Sub-plan

#### Standard Chemistry Required Courses

CHEM 3502—Physical Chemistry II [SCI] (4 cr)  
 CHEM 3511—Physical Chemistry Lab (1 cr)

#### Standard Chemistry Elective Courses

Take 2 or more courses from the following:

CHEM 3301—The Chemistry of Sustainable Energy [SCI] (4 cr)  
 CHEM 3401—Polymer Chemistry and the Environment [SCI] (4 cr)  
 CHEM 4111—Instrumental Analysis (5 cr)  
 CHEM 4352—Synthesis (4 cr)  
 CHEM 4551—Theoretical Chemistry (4 cr)  
 CHEM 4552—Molecular Spectroscopy (3 cr)  
 CHEM 4701—Inorganic Chemistry (4 cr)  
 CHEM 4751—Advanced Inorganic Chemistry (2 cr)  
 BIOL 4211—Biochemistry (4 cr)  
 and BIOL 4611—Biochemistry Lab (1 cr)

### Chemistry, Subfield Biochemistry Sub-plan

#### Biochemistry Required Courses

BIOL 1111—Fundamentals of Genetics, Evolution, and Development [SCI] (3 cr)  
 BIOL 2111—Cell Biology [SCI-L] (4 cr)  
 BIOL 3121—Molecular Biology [SCI-L] (5 cr)  
 BIOL 4211—Biochemistry (4 cr)  
 BIOL 4611—Biochemistry Lab (1 cr)  
 CHEM 4351—Bioorganic Chemistry (4 cr)  
 or CHEM 4354—Biochemistry of Neurological Disorders (4 cr)

#### Biochemistry Electives

For students planning to go to graduate school in biochemistry, it is recommended that they also take BIOL 4111—Microbiology and BIOL 4312—Genetics.

Take 1 or more courses from the following:

CHEM 3301—The Chemistry of Sustainable Energy [SCI] (4 cr)  
 CHEM 3401—Polymer Chemistry and the Environment [SCI] (4 cr)  
 CHEM 3502—Physical Chemistry II [SCI] (4 cr)  
 CHEM 4111—Instrumental Analysis (5 cr)  
 CHEM 4352—Synthesis (4 cr)  
 CHEM 4551—Theoretical Chemistry (4 cr)  
 CHEM 4552—Molecular Spectroscopy (3 cr)  
 CHEM 4701—Inorganic Chemistry (4 cr)  
 CHEM 4751—Advanced Inorganic Chemistry (2 cr)

## Chemistry Minor

Courses may not be taken S-N except where noted. Up to 8 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of coursework with a grade of A or B. The GPA in the minor courses must be at least 2.00.

### Required Courses

CHEM 1101—General Chemistry I [SCI-L] (5 cr)  
 CHEM 1102—General Chemistry II [SCI-L] (5 cr)  
 CHEM 2301—Organic Chemistry I [SCI] (4 cr)  
 CHEM 2311—Organic Chemistry Lab I (1 cr)

### Elective Courses

Three elective courses are required. Students must take either CHEM 3101 or 3501. Two additional courses are also required. If CHEM 3101 is not taken, one of the two courses must include lab or have an additional concurrent lab registration.

**If CHEM 3101 is taken:**

CHEM 3101—Analytical Chemistry [SCI-L] (4 cr)

*Take 2 or more courses from the following:*

BIOL 4211—Biochemistry (4 cr)

CHEM 3301—The Chemistry of Sustainable Energy [SCI] (4 cr)

CHEM 3401—Polymer Chemistry and the Environment [SCI] (4 cr)

CHEM 3501—Physical Chemistry I [SCI] (4 cr)

CHEM 3502—Physical Chemistry II [SCI] (4 cr)

CHEM 4111—Instrumental Analysis (5 cr)

CHEM 4352—Synthesis (4 cr)

CHEM 4551—Theoretical Chemistry (4 cr)

CHEM 4552—Molecular Spectroscopy (3 cr)

CHEM 4701—Inorganic Chemistry (4 cr)

CHEM 4751—Advanced Inorganic Chemistry (2 cr)

CHEM 2302—Organic Chemistry II [SCI] (4 cr)

or CHEM 2304—Organic Chemistry II with a Biological Emphasis [SCI] (4 cr)

CHEM 4351—Bioorganic Chemistry (4 cr)

or CHEM 4354—Biochemistry of Neurological Disorders (4 cr)

**or If CHEM 3101 is not taken:**

CHEM 3501—Physical Chemistry I [SCI] (4 cr)

*Choose one course and lab combination from the following pairs:**Take 2 or more courses from the following:*

CHEM 3502—Physical Chemistry II [SCI] (4 cr)

CHEM 3511—Physical Chemistry Lab (1 cr)

CHEM 4701—Inorganic Chemistry (4 cr)

CHEM 4711—Inorganic Chemistry Lab (1 cr)

BIOL 4211—Biochemistry (4 cr)

BIOL 4611—Biochemistry Lab (1 cr)

CHEM 3401—Polymer Chemistry and the Environment [SCI] (4 cr)

CHEM 3411—Polymer Chemistry Lab (1 cr)

*Take 1 or more courses from the following:*

BIOL 4211—Biochemistry (4 cr)

CHEM 2302—Organic Chemistry II [SCI] (4 cr)

CHEM 2304—Organic Chemistry II with a Biological Emphasis [SCI] (4 cr)

CHEM 3301—The Chemistry of Sustainable Energy [SCI] (4 cr)

CHEM 3401—Polymer Chemistry and the Environment [SCI] (4 cr)

CHEM 3502—Physical Chemistry II [SCI] (4 cr)

CHEM 4351—Bioorganic Chemistry (4 cr)

CHEM 4352—Synthesis (4 cr)

CHEM 4354—Biochemistry of Neurological Disorders (4 cr)

CHEM 4551—Theoretical Chemistry (4 cr)

CHEM 4552—Molecular Spectroscopy (3 cr)

CHEM 4701—Inorganic Chemistry (4 cr)

CHEM 4751—Advanced Inorganic Chemistry (2 cr)

**Teacher Preparation Requirements**

Students seeking teaching licensure in chemistry 9–12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Chemistry Course Descriptions****CHEM 1001. Chemistry for the Curious Citizen: The Role of Chemistry in the Environment and Everyday Life.** (SCI-L; 4 cr;

=[CHEM 1801]; may not count toward chem major or minor; summer, offered periodically)

The central nature and relevance of chemistry to the environment and everyday life. Air quality, the ozone layer, global warming, energy resources, acid rain, and nutrition. Discussion and debate of current events related to these topics. Select readings on significant historical chemical discoveries in these areas that still resonate today. Basic chemistry lab principles and techniques. This course is intended for non-science majors.

**CHEM 1101. General Chemistry I.** (SCI-L; 5 cr; prereq Math 0901 or placement beyond Math 0901 using ACT/placement exam score; fall, every year)

Scientific method, measurements, nomenclature, stoichiometry, atomic and molecular structure, thermochemistry, chemical periodicity, introduction to chemical bonding, and properties of common elements and ions. Development of scientific reasoning and problem-solving skills. Laboratory exercises concomitant with these topics. (three 65-min lect, 180 min lab)

**CHEM 1102. General Chemistry II.** (SCI-L; 5 cr; prereq 1101; spring, every year)

Continuation of Chem 1101. Chemical bonding, states of matter, solutions, acid-base chemistry, chemical equilibrium, oxidation–reduction reactions, kinetics, thermodynamics, quantum theory, nuclear chemistry, organic chemistry, and biochemistry. Lab exercises concomitant with these topics. (three 65-min lect, 180 min lab)

**CHEM 1553. Chemistry, Empirical Inquiry, and Cultural Confluence in Thailand.** (IP; 4 cr; prereq 1102 or #; summer, offered periodically)

Science is seen as objective and equally applicable all over the world. This doesn't mean that science doesn't benefit from a diversity of cultural points of view among scientists. Topics included are molecular structure, thermodynamics, equilibrium, and spectroscopy. These topics, with their universal relevance in chemistry, also provide a doorway for cultural exchange. This course offers an opportunity to study chemistry while immersed in the culture of Thailand, a Southeast Asian country never colonized by a western power. The course takes place on the campuses of Mahasarakham University, Kasetsart University, and cities, villages, and National Parks in Thailand. Discussion and lab activities are designed to build on topics from Chem 1102 and be culturally relevant and collaborative between students and faculty from UMM and universities in Thailand. The course provides a balance of perspectives both eastern and western, modern and traditional.

**CHEM 1801. Science Savvy in Our Modern World.** (IC; 2 cr; =[CHEM 1001]; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

If students and chemistry were in a Facebook relationship, the status would be "it's complicated." Some students love science and some love to hate it. "America's Finest News Source," The Onion, has repeatedly reported that "science is hard" but are they right? Chemistry is too important in our modern world to be ignored simply because it's complicated or perceived to be hard. Some science is hard but just because a science topic is complex doesn't mean that it can only be understood by rocket scientists. Through written reflections and discussions based on mainstream science books and current event articles, students explore the connections between science and society. The course helps students to understand the role of experts and bias in the reporting. The course also helps students to become more science literate about the green and sustainable activities on campus. Ultimately, this course fosters a relationship where students both need and want to be engaged with chemistry.

**CHEM 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CHEM 1994. Directed Research.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus undergraduate research experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CHEM 2301. Organic Chemistry I.** (SCI; 4 cr; prereq 1102; fall, every year)

Introduction to the structure and reactivity of organic molecules; nomenclature and functional groups; stereochemistry; mechanisms of substitution and elimination pathways; physical organic chemistry; introduction to synthetic strategy; fundamentals of spectroscopic techniques.

**CHEM 2302. Organic Chemistry II.** (SCI; 4 cr; =[CHEM 2304]; prereq C or better in 2301, coreq 2321 or # for chem majors; spring, every year)

Continuation of topics from Chem 2301; spectroscopy; chemistry of polyenes, aromatic systems, and amines; enol and enolate chemistry; free-radical chemistry; retrosynthetic analysis; special topics.

**CHEM 2304. Organic Chemistry II with a Biological Emphasis.** (SCI; 4 cr; =[CHEM 2302]; prereq C or better in 2301, Biol 2111 or #; spring, offered periodically)

Continuation of topics from Chem 2301, with an emphasis on compounds and reactions of biological interest. Topics include spectroscopy, structure and reactivity of aromatic compounds, phosphoryl and acyl group transfer, nucleophilic carbonyl addition, reactions involving enolate and enamine intermediates, coenzyme chemistry, electrophilic addition, beta elimination, oxidation and reduction of organic compounds, and reactions involving free radical intermediates.

**CHEM 2311. Organic Chemistry Lab I.** (1 cr; prereq coreq 2301 or #; fall, every year)

Development of lab techniques in organic chemistry; experimental problem-solving. (3 hrs lab)

**CHEM 2321. Introduction to Research I.** (1 cr; prereq 2311, coreq 2302 or 2304 or #; spring, every year)

Interdisciplinary approach to experiment design and analysis of data. Synthesis of organic, organometallic, and/or inorganic compounds, with emphasis on purification and characterization using advanced techniques and instrumental methods. Instruction in use of the scientific literature and scientific communication. Begin research project with faculty mentor. (6 hrs lab)

**CHEM 2322. Introduction to Research II.** (1 cr; prereq 2321, coreq 2302 or 2304; spring, every year)

Continue research with faculty mentor. Experiment design and analysis of data. Instruction in the use of the scientific literature and oral and written scientific communication. (6 hrs lab)

**CHEM 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CHEM 2994. Directed Research.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus undergraduate research experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CHEM 3101. Analytical Chemistry.** (SCI-L; 4 cr; prereq 1102; fall, every year)

The application of chemical equilibria to chemical analysis with emphasis on the fundamental quantitative aspects of analytical chemistry. Acid-base, oxidation-reduction, and complexometric titrations, introduction to electrochemical and spectrophotometric analyses and separations. (3 hrs lect, 3 hrs lab)

**CHEM 3301. The Chemistry of Sustainable Energy.** (SCI; 4 cr; =[ESCI 3301]; prereq 2302 or 2304 or #; fall, even years)

Same as ESci 3301. The fundamental chemical concepts underlying energy sources. Topics include: energy basics, fossil fuels, "sustainable" energy sources, biomass, solar voltaics, hydrogen fuel cells, and nuclear energy.

**CHEM 3401. Polymer Chemistry and the Environment.** (SCI; 4 cr; =[ESCI 3401]; prereq 2302 or 2304 or #; spring, even years)

Same as ESci 3401. Introduction to many traditional topics in polymer chemistry including those with a connection to elements of the environment and environmental science such as the preparation of polymers from renewable feedstocks, polymers in renewable energy, green syntheses of polymers, and environmental impacts of polymers.

**CHEM 3411. Polymer Chemistry Lab.** (1 cr; prereq 2322, coreq 3401 or ESci 3401 or #; spring, even years)

Synthesis, characterization, and physical properties of polymers with an emphasis on sustainable polymer chemistry. (3 hrs lab)

**CHEM 3501. Physical Chemistry I.** (SCI; 4 cr; prereq 1102, Phys 1101, Math 1102 or #; fall, every year)

The gas state. Classical thermodynamics. Phase, chemical and heterogeneous equilibria. Chemical kinetics. Kinetic theory of gases. Transport.

**CHEM 3502. Physical Chemistry II.** (SCI; 4 cr; prereq 3501, coreq 3511 or # for chem majors; spring, every year)

Introduction to quantum theory. Atomic and molecular structure. Group Theory. Introduction to statistical mechanics. Chemical dynamics. Topics drawn from the liquid and solid states, advanced kinetics, electrochemistry, and surfaces.

**CHEM 3511. Physical Chemistry Lab.** (1 cr; prereq coreq 3502; spring, every year)

Lab experiments to illustrate physico-chemical principles and to develop skills in data collection, analysis and interpretation, and in report writing. (3 hrs lab)

**CHEM 3901. Chemistry Seminar I.** (0.5 cr; A-F only; prereq 2321;

required of all chem majors; may not count toward chem minor; spring, every year)

Presentations by faculty, guest speakers, and students on topics of current research interest. Students are required to present one seminar for the Chem 3901-4901 sequence.

**CHEM 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CHEM 3994. Directed Research.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus undergraduate research experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CHEM 4111. Instrumental Analysis.** (5 cr; prereq 3101; spring, odd years)

Principles of chemical instrumentation and instrumental methods of analysis; extensive lab work using chromatographic, spectrophotometric, and electrochemical methods of analysis. (3 hrs lect, 6 hrs lab)

**CHEM 4351. Bioorganic Chemistry.** (4 cr; prereq 2302 or 2304, Biol 4211; spring, every year)

Discussion of the theory of enzyme catalysis and catalytic antibodies, experimental determination of catalytic mechanisms for a variety of organic reactions in biological systems, and elucidation of biosynthetic pathways. Involves extensive reading in the primary literature.

**CHEM 4352. Synthesis.** (4 cr; prereq 2302 or 2304; fall, odd years)

Study of the preparation of biologically active molecules, emphasizing the application of transition metal chemistry to modern synthetic methods.

**CHEM 4353. Synthesis Laboratory.** (1 cr; prereq 4352 or #; fall, spring, offered periodically)

Modern organometallic synthetic methods applied to the preparation of small organic molecules. Preparation, purification, analysis, and identification of synthetic products. Scientific record-keeping and literature searching. (3 hrs lab)

**CHEM 4354. Biochemistry of Neurological Disorders.** (4 cr; prereq 2321 or Biol 3700, Biol 4211 or #; spring, offered periodically)

Discussion of the biochemical aspects of neurodegenerative diseases, addiction, and poisons such as the roles of metal ions and non-covalent interactions in protein folding and function. The course involves extensive reading and discussion of primary literature with a strong focus on data interpretation and experimental design.

**CHEM 4551. Theoretical Chemistry.** (4 cr; prereq or coreq 3502 or #; spring, offered periodically)

Quantum theory of molecules. Statistical thermodynamics; Gibbsian ensembles; applications.

**CHEM 4552. Molecular Spectroscopy.** (3 cr; prereq 2302 or 2304, 3101 or #; spring, even years)

Interaction of molecules and electromagnetic radiation. Spectroscopic determination of molecular structure. Operation of spectrometers and spectrophotometers.

**CHEM 4553. Impermanence and Equilibrium in Chemical Thermodynamics and Buddhism in Thailand.** (4-6 cr; prereq 3501 or #; 4 credits for may session only; 6 credits if continuing into June in Morris; summer, offered periodically)

An advanced course both in physical chemistry and in Buddhist concepts. Two of the deepest and furthest reaching ideas in chemical thermodynamics are that non-equilibrium states are impermanent and that they evolve toward equilibrium. Parallel topics equally fundamental to Buddhism are that compounded things are impermanent and that, free from clinging to that which is intrinsically fleeting, one's mind can settle to a state of calm and clarity. Chemical thermodynamics and Pali Buddhism have very different origins. This course offers the opportunity to reinforce and build on important chemical concepts from Physical Chemistry I while learning some analogous Buddhist concepts and applying them to gain calm and clarity of mind. The course takes place in Thailand on the campus of Mahasarakham University and in cities, villages, and National Parks in Thailand. The course includes a mix of discussion, lecture, and lab as well as cultural activities and excursions.

**CHEM 4701. Inorganic Chemistry.** (4 cr; prereq 3501 or #; spring, odd years)

The periodic table; models of structure and bonding of main group elements and transition metals, nomenclature, symmetry, and bonding theory of coordination compounds.

**CHEM 4711. Inorganic Chemistry Lab.** (1 cr; prereq 2322, coreq 4701 or #; spring, odd years)

Lab experiments in inorganic/organometallic chemistry illustrating synthetic and spectroscopic techniques. (3 hrs lab)

**CHEM 4751. Advanced Inorganic Chemistry.** (2 cr; prereq 4701 or #; fall, spring, summer, offered periodically)  
Structure and reactions of coordination compounds, inorganic cages and clusters, lanthanide and actinide series. Nanoparticles, bioinorganic topics, and other trends in the field.

**CHEM 4901. Chemistry Seminar II.** (0.5 cr; A-F only; prereq 3901; required of all chem majors; may not count toward chem minor: full-year course begins fall semester; fall, every year)  
Continuation of Chemistry Seminar I. This is a full-year course. Students must attend year round and present one of the seminars.

**CHEM 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CHEM 4994. Directed Research.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus undergraduate research experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Chinese (CHN)

### *Division of the Humanities*

The Chinese discipline introduces students to the study of the language, literature and culture of China. The courses satisfy foreign language and other general education requirements.

**Objectives**—The Chinese discipline is designed to help students develop a number of skills in Chinese, including comprehension and speaking, reading, and writing, in order to communicate effectively in Chinese on a broad range of topics. The courses are designed to help students develop critical insight into the philosophy and values of another culture as they increase their competence in a second language.

### **Study Abroad**

In light of today's increasingly interdependent world, the UMM Chinese discipline endorses study abroad as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one's world view
- expand career opportunities
- advance cross-cultural and problem solving skills
- gain confidence in oneself personally and professionally

## Chinese Course Descriptions

**CHN 1001. Beginning Modern Chinese I.** (4 cr; fall, every year)  
First semester of a two-semester sequence in first-year modern standard Chinese (Mandarin) for students who have no previous exposure to the Chinese language. Introduction to the sounds of Mandarin, basic grammar, vocabulary, and the Chinese writing system.

**CHN 1002. Beginning Modern Chinese II.** (FL; 4 cr; prereq 1001 or #; spring, every year)  
Second semester of the two-semester sequence in first-year Chinese. Designed for those who have completed first-semester Chinese or who have equivalent preparation. Introduction to additional modern standard Chinese (Mandarin) grammar, vocabulary, and sentence structures. By the end of the semester, students should be able to recognize some of the Chinese characters, write about part of them from memory, conduct simple conversations, and read simple Chinese texts on general topics.

## Communication, Media, and Rhetoric (CMR)

### *Division of the Humanities*

This discipline is in the Division of the Humanities. The mission of the Communication, Media, and Rhetoric (CMR) discipline is to provide an introduction to the breadth of scholarship in communication history, communication theory, and communication contexts. UMM students in the CMR major study the multidimensional nature of various types of communication processes, the activities of message production, and the analysis and evaluation of personal, public, and mass communication.

Students develop skills for lifelong learning and refine capabilities for active involvement in a participatory democracy.

**Objectives**—The curriculum is designed to ensure that:

1. Students develop a historical and theoretical understanding of the three areas of communication, electronic media, and rhetoric.
2. Students use a variety of assigned theoretical approaches and research methods appropriate to rhetoric, communication, and electronic mass media to describe and evaluate assigned or chosen discourse.
3. Students participate in a variety of oral communication phenomenon assignments using informative and persuasive speaking techniques effectively.

### **Learning Outcomes:**

1. Students will be able to compare and evaluate various theoretical approaches, demonstrate an understanding of the historical dimensions of theory building, and describe and critically evaluate the complexity and richness of communication
2. Students will be able to choose from a variety of methods to analyze, synthesize, and evaluate a specific act, communication artifact, or phenomena.
3. Students will be able to design and deliver effective messages orally.

## Communication, Media, and Rhetoric Major

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### **Required Courses**

CMR 1052—Introduction to Public Speaking [E/CR] (2 cr)  
CMR 1062—Introduction to Interpersonal and Group Communication [HUM] (4 cr)  
CMR 1101—Introduction to Theories of Communication, Media, and Rhetoric [HUM] (4 cr)  
CMR 4152—Advanced Public Speaking [HUM] (4 cr)  
CMR 4900—Communication, Media, and Rhetoric Seminar I (1 cr)  
CMR 4901—Communication, Media, and Rhetoric Seminar II [HUM] (3 cr)

### **Communication Electives**

*Take 8 or more credits from the following:*

CMR 2411—Health Communication [HUM] (4 cr)  
CMR 2421—Business and Professional Communication [E/CR] (4 cr)  
CMR 3401—Communication Theory [SS] (4 cr)  
CMR 3411—Intercultural Communication Theory and Research [HDIV] (4 cr)  
CMR 3421—Organizational Communication Theory and Research [SS] (4 cr)  
CMR 3432—Communication Research Methods [HUM] (4 cr)  
CMR 4411—Advanced Interpersonal Communication (4 cr)

### **Media Electives**

*Take 8 or more credits from the following:*

CMR 1388—College Newspaper Experience (1 cr)  
CMR 1389—College Radio Experience (1 cr)  
CMR 2311—Media History and Society [SS] (4 cr)  
CMR 2321—Digital Media Production [HUM] (4 cr)  
CMR 3301—Media Theory, Criticism, and Problems [SS] (4 cr)  
CMR 3312—Media Literacy [HUM] (4 cr)  
CMR 3342—Visual Journalism [HUM] (4 cr)  
CMR 4341—New Media Technologies [HUM] (2 cr)



**Rhetoric Electives**

Take 8 or more credits from the following:

- CMR 3101–Rhetorical History and Theories: Pre-Socratic to Modern Periods [IP] (4 cr)  
 CMR 3111–Contemporary Rhetorical Theory and Criticism [HUM] (4 cr)  
 CMR 3123–Rhetorical Criticism and Speeches that Changed the World [HUM] (4 cr)  
 CMR 3124–Rhetoric of Comic Art: Analysis and Creation [HUM] (4 cr)  
 CMR 3125–Rhetoric of Free Speech in American Schools: Case Law and Queries [SS] (4 cr)  
 CMR 3202–Rhetoric of Presidential Inaugurals [HUM] (4 cr)  
 CMR 3251–Rhetorical Criticism and Free Speech Discourse [E/CR] (4 cr)  
 CMR 4122–Rhetoric of Picture Books, Prose and Picture [HUM] (4 cr)

## Communication, Media, and Rhetoric Minor

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

**Required Courses**

- CMR 1052–Introduction to Public Speaking [E/CR] (2 cr)  
 CMR 1062–Introduction to Interpersonal and Group Communication [HUM] (4 cr)  
 CMR 1101–Introduction to Theories of Communication, Media, and Rhetoric [HUM] (4 cr)

**Elective Courses**

Take 10 or more credits from the following:

- CMR 1388–College Newspaper Experience (1 cr)  
 CMR 1389–College Radio Experience (1 cr)  
 CMR 2311–Media History and Society [SS] (4 cr)  
 CMR 2321–Digital Media Production [HUM] (4 cr)  
 CMR 2411–Health Communication [HUM] (4 cr)  
 CMR 2421–Business and Professional Communication [E/CR] (4 cr)  
 CMR 3101–Rhetorical History and Theories: Pre-Socratic to Modern Periods [IP] (4 cr)  
 CMR 3111–Contemporary Rhetorical Theory and Criticism [HUM] (4 cr)  
 CMR 3123–Rhetorical Criticism and Speeches that Changed the World [HUM] (4 cr)  
 CMR 3124–Rhetoric of Comic Art: Analysis and Creation [HUM] (4 cr)  
 CMR 3125–Rhetoric of Free Speech in American Schools: Case Law and Queries [SS] (4 cr)  
 CMR 3202–Rhetoric of Presidential Inaugurals [HUM] (4 cr)  
 CMR 3251–Rhetorical Criticism and Free Speech Discourse [E/CR] (4 cr)  
 CMR 3301–Media Theory, Criticism, and Problems [SS] (4 cr)  
 CMR 3312–Media Literacy [HUM] (4 cr)  
 CMR 3342–Visual Journalism [HUM] (4 cr)  
 CMR 3401–Communication Theory [SS] (4 cr)  
 CMR 3411–Intercultural Communication Theory and Research [HDIV] (4 cr)  
 CMR 3421–Organizational Communication Theory and Research [SS] (4 cr)  
 CMR 3432–Communication Research Methods [HUM] (4 cr)  
 CMR 4122–Rhetoric of Picture Books, Prose and Picture [HUM] (4 cr)  
 CMR 4152–Advanced Public Speaking [HUM] (4 cr)  
 CMR 4341–New Media Technologies [HUM] (2 cr)  
 CMR 4411–Advanced Interpersonal Communication (4 cr)

## Communication, Media, and Rhetoric Course Descriptions

**CMR 1042. Public Speaking and Analysis.** (E/CR; 4 cr; summer, offered periodically)  
 Public address theories, practices, and analysis.

**CMR 1052. Introduction to Public Speaking.** (E/CR; 2 cr; fall, spring, every year)  
 Activities, assignments, and exercises related to public address/public speaking in a variety of speech settings.

**CMR 1062. Introduction to Interpersonal and Group Communication.** (HUM; 4 cr; fall, every year)  
 Activities, assignments, and exercises related to interpersonal and group communication in private and public settings including dating, family, and work.

**CMR 1101. Introduction to Theories of Communication, Media, and Rhetoric.** (HUM; 4 cr; spring, every year)  
 A survey of the field of study. Students learn the history, theories, and contexts of communication study that prepare them for upper-division courses.

**CMR 1388. College Newspaper Experience.** (1 cr [max 2 cr]; prereq #; fall, spring, every year)  
 Supervised experience of selected learning activities to be done in conjunction with an appointment working at the campus newspaper.

**CMR 1389. College Radio Experience.** (1 cr [max 2 cr]; prereq #; fall, spring, every year)  
 Supervised experience of selected learning activities to be done in conjunction with an appointment working at the campus radio station.

**CMR 1801. Legal Argument and Free Speech: Ready to Become a Supreme Court Justice?** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
 Examination of the development of legal argument in Supreme Court decisions dealing with free speech. Read Supreme Court cases, write opinions, speak to a mock Supreme Court, listen to arguments, and analyze the issues that define the ability to communicate in this country.

**CMR 1802. Interpersonal and Intercultural Conflict Communication.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
 An IC course in conflict communication. Students come to understand common sources of conflict, roles of culture in the perceptions of interpersonal conflict, and more successful approaches to addressing conflict through communication in order to sustain valued interpersonal and professional relationships with members of diverse cultures.

**CMR 1803. Not Just For Laughs: Humor in Interpersonal Communication and the Media.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
 Exploration of the dimensions of humor in Interpersonal and Mediated Communication. Examination of humor in interpersonal situations and the media. Students explore a variety of humorous content, analyze if/how/why it is effective, create their own humorous content, and learn about using humor effectively in everyday communication.

**CMR 2311. Media History and Society.** (SS; 4 cr; fall, spring, offered periodically)  
 Examines the historical and on-going development of the relationship of media, culture, and the public. Traces and explores the developments of various communication technologies, their impacts and consequences, and their relationships to notions of "the public."

**CMR 2321. Digital Media Production.** (HUM; 4 cr; fall, spring, offered periodically)  
 Basic theories and practice: equipment, procedures, and skills associated with planning, writing for, and producing mediated messages. Lectures, studio projects, class critiques.

**CMR 2411. Health Communication.** (HUM; 4 cr; fall, offered periodically)  
 A survey of the critical role communication plays in health promotion, specifically in the area of doctor-patient interaction and health campaigns. Communicative issues include the social construction of health, the role of culture in health and healing, and social support.

**CMR 2421. Business and Professional Communication.** (E/CR; 4 cr; prereq 1052, 1062 or #; spring, offered periodically)  
 Developing proficiency in communication skills in business and professional contexts. Preparing, selecting, organizing, designing, and delivering messages in business situations. Analyzing meeting/group facilitation, interviewing, and professional presentations.

**CMR 3101. Rhetorical History and Theories: Pre-Socratic to Modern Periods.** (IP; 4 cr; prereq 1101 or #; fall, every year)  
Rhetoric from the classical theories of the older Sophists, Aristotle, and Cicero to the modern theories of Blair, Campbell, and Whately.

**CMR 3111. Contemporary Rhetorical Theory and Criticism.** (HUM; 4 cr; prereq 1101 or #; fall, spring, offered periodically)  
Detailed study of the development of contemporary rhetorical theory, with particular emphasis placed on the use of those theories in the development of rhetorical criticism.

**CMR 3123. Rhetorical Criticism and Speeches that Changed the World.** (HUM; 4 cr; prereq 1101 or #; spring, offered periodically)  
Human beings create and maintain their cultures through rhetoric, the art of being persuasive. This course explores the rhetorical nature of the speeches that have changed the world from Moses and Mohammed to Elie Wiesel and George W. Bush.

**CMR 3124. Rhetoric of Comic Art: Analysis and Creation.** (HUM; 4 cr; prereq 1101 or #; fall, offered periodically)  
Explores and analyzes the rhetorical, persuasive features of comic art. Examines the rhetorical construction of comic art in comic strips, comic books, and political cartoons by exploring the persuasive synergy created between picture and text. Students are required to both analyze and create comic art.

**CMR 3125. Rhetoric of Free Speech in American Schools: Case Law and Queries.** (SS; 4 cr; prereq 1801 or 3251 or #; spring, offered periodically)

Focus on the shifting clash between individual student expression and administrative authority. Assumes a fundamental understanding of freedom of speech case law.

**CMR 3202. Rhetoric of Presidential Inaugurals.** (HUM; 4 cr; prereq 1101 or #; fall, spring, offered periodically)  
Study of the rhetorical dimensions of the genre of presidential inaugurals. Students will complete a variety of rhetorical criticisms concerning an assigned presidential inaugural.

**CMR 3251. Rhetorical Criticism and Free Speech Discourse.** (E/CR; 4 cr; prereq 1101 or #; fall, spring, offered periodically) Analysis and evaluation of Supreme Court opinions establishing the contours of First Amendment protection for freedom of speech. Particular attention is devoted to the nature of "communication" revealed by the decisions studied.

**CMR 3301. Media Theory, Criticism, and Problems.** (SS; 4 cr; prereq 1101 or #; spring, every year)  
Theories, research studies, current trends, and various critical approaches to examine and explain the reflexive relationships between media and society.

**CMR 3312. Media Literacy.** (HUM; 4 cr; prereq 1101 or #; fall, offered periodically)  
Examining ways people decode media images and messages. Topics include principles of literacy, media content/industries, media and identity, and media effects.

**CMR 3342. Visual Journalism.** (HUM; 4 cr; This course may have a maximum of 12 students. (We are limited by the number of computer workstations and software licenses in the HFA Digital Media Studio.); spring, offered periodically)  
Both a theoretical and a hands-on course that immerses students in all aspects of the visual side of journalism, as well as in design principles and techniques for the web and print.

**CMR 3401. Communication Theory.** (SS; 4 cr; prereq 1101 or #; fall, every year)  
Detailed study of the theoretical tradition of human communication. Focuses on social scientific and humanities theories used to explain social interaction. Provides general foundation on various traditions of inquiry as well as qualitative and quantitative methods.

**CMR 3411. Intercultural Communication Theory and Research.** (HDIV; 4 cr; prereq 1101 or #; fall, offered periodically)  
Study of intercultural communication from an interpersonal and group perspective.

**CMR 3421. Organizational Communication Theory and Research.** (SS; 4 cr; prereq 1101 or #; spring, offered periodically) Study of organizational communication, including small group perspectives.

**CMR 3432. Communication Research Methods.** (HUM; 4 cr; prereq 1101 or #; fall, offered periodically)

Elements/methods of communication research. Use of quantitative/qualitative research methodologies, basic research design, and data collection methods to inform decision making.

**CMR 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CMR 4122. Rhetoric of Picture Books, Prose and Picture.** (HUM; 4 cr; prereq 1101 or #; fall, offered periodically)

Explore and analyze picture books for intended and unintended messages. Examine the rhetorical construction of pictures and the rhetorical impact of the intersection between picture and prose. Gain a deeper sensitivity to the formerly unseen rhetorical dimensions of the symbols that surround them.

**CMR 4152. Advanced Public Speaking.** (HUM; 4 cr; prereq 1052 or #; fall, every year)

A study of rhetorical argument design and evaluation. Students analyze and critique arguments, as well as plan and present formal speeches.

**CMR 4341. New Media Technologies.** (HUM; 2 cr; prereq 1101 or #; spring, offered periodically)  
Examination of the impact of "new media" on current/future cultures; the structure/ processes of media and global society in a comparative context; ways new media change how people communicate, distribute, and process information.

**CMR 4411. Advanced Interpersonal Communication.** (4 cr; prereq 1101 or #; spring, offered periodically)

Applying a variety of approaches to understanding interpersonal communication.

**CMR 4800. Directed Experience in Teaching Communication, Media, and Rhetoric.** (1-4 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

Practice as facilitators in the introductory-level communication, media, and rhetoric courses; weekly seminar sessions focus on method, planning, and problems in communication, media, and rhetoric instruction.

**CMR 4900. Communication, Media, and Rhetoric Seminar I.** (1 cr; A-F only; prereq 1052, 1062, 1101 or sr status with #; fall, every year)  
Familiarizes students with the literature of the field, including ethical and social implications of communication studies. Students analyze various articles and similarly published works, synthesize contents, and construct a research proposal for a project to be completed as a senior capstone experience.

**CMR 4901. Communication, Media, and Rhetoric Seminar II.** (HUM; 3 cr; A-F only; prereq 4900, or sr status in the major, #; spring, every year)  
Completion of capstone experience for majors. Students conduct a project of original study and present their findings in written and oral form.

**CMR 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Computer Science (CSCI)

### *Division of Science and Mathematics*

The computer science curriculum is designed to not only provide a solid background in fundamentals, but also to continuously respond to rapid changes in the field of computing by equipping our students with modern tools, approaches, and cutting-edge concepts and technologies. Coursework in computer science spans three core areas of computing, including theory, software development, and systems. Beginning computer science courses are open to non-majors and satisfy the mathematical and symbolic reasoning component of the general education requirements. All computer science majors must complete a senior seminar capstone experience, and the discipline prides itself on the high quality of students' papers and presentations in this course. The program also includes mathematics or statistics in the required coursework.

Computer science majors develop software, explore hardware systems, and apply theoretical concepts. Reflecting the collaborative nature of today's world, team work is heavily integrated into computer science coursework. Students are

encouraged to use and supplement their formal education through research opportunities, internship experiences, programming and robotics competitions, and student and professional organizations. Many students take advantage of the opportunity to collaborate with computer science faculty on research projects, presenting the results at international, national, and regional conferences, as well as at UMM's Undergraduate Research Symposium.

Study in computer science is required for management and math majors at UMM, as well as for students pursuing a variety of pre-engineering programs. Many UMM computer science majors enter the job market upon graduation, primarily in the computing industry. Others pursue postgraduate work toward a masters or doctoral degree in computing, business, library science, or a variety of other fields.

**Objectives**—the computer science discipline is designed to:

- \* serve students from other disciplines requiring knowledge of computer science;
- \* advance student learning in computer science at a depth and breadth appropriate to undergraduates;
- \* advance student competence in research in computer science;
- \* advance student writing and presentation skills appropriate for the field;
- \* advance student teamwork and collaboration skills; and
- \* prepare students for careers in industrial settings and/or postgraduate work in computing.

## Computer Science Major

Grades of D or D+ in CSCI 1201, 1301, 1302, and 2101 may not be used to meet the major requirements.

No more than one course with a grade of D or D+, offset by an equivalent number of credits of A or B grades, may be used to meet the requirements for a computer science major.

Courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Elective courses: computer science major electives are divided into three areas: systems courses (CSCI 44xx), theory courses (CSCI 45xx), and programming and languages courses (CSCI 46xx). The discipline offers an array of courses in each area. The courses listed are representative of the courses offered. New courses are continually developed and added to keep up with changes in the field.

### Required Courses

- CSCI 1302—Foundations of Computer Science [M/SR] (4 cr)
- CSCI 2101—Data Structures [M/SR] (5 cr)
- CSCI 3402—Computing Systems: Concepts (3 cr)
- CSCI 3403—Computing Systems: Practicum (2 cr)
- CSCI 3501—Algorithms and Computability [M/SR] (5 cr)
- CSCI 3601—Software Design and Development [M/SR] (5 cr)
- CSCI 4901—Senior Seminar (1 cr)
- IS 1091—Ethical and Social Implications of Technology [E/CR] (2 cr)

Take one of the following:

- CSCI 1201—Introduction to Digital Media Computation [M/SR] (4 cr)
- or CSCI 1301—Problem Solving and Algorithm Development [M/SR] (4 cr)

### Elective Courses

Take 10 or more credits including exactly 3 sub-requirements from the following:

#### Computing Systems Courses (44xx):

Take 2–4 credits from the following:

- CSCI 4403—Systems: Data Mining (2 cr)
- CSCI 4406—Systems: Wireless Data Networks (2 cr)
- CSCI 4409—Systems: Programming for Parallel Architecture (2 cr)
- CSCI 4451—Systems: Distributed Systems (4 cr)
- CSCI 4452—Systems: Computer Networks (4 cr)
- CSCI 4453—Systems: Database Systems (4 cr)

- CSCI 4454—Systems: Robotics (4 cr)
- CSCI 4456—Systems: Advanced Operating Systems (4 cr)
- CSCI 4457—Systems: Ubiquitous Computing (4 cr)
- CSCI 4458—Systems: Bioinformatic Systems (4 cr)
- CSCI 4459—Systems: Virtualization and Operating System Administration, Configuration, and Implementation (4 cr)

#### Theory Courses (45xx):

Take 2–4 credits from the following:

- CSCI 4506—Theory: Fuzzy Logic and Fuzzy Sets (2 cr)
- CSCI 4507—Theory: Data Compression (2 cr)
- CSCI 4508—Theory: Algorithm Design (2 cr)
- CSCI 4511—Theory: Artificial Life (2 cr)
- CSCI 4552—Theory: Advanced Algorithms (4 cr)
- CSCI 4553—Theory: Evolutionary Computation and Artificial Intelligence (4 cr)
- CSCI 4554—Theory: Cryptography (4 cr)
- CSCI 4555—Theory: Neural Networks and Machine Learning (4 cr)
- CSCI 4556—Theory: Computer Graphics (4 cr)
- CSCI 4557—Theory: Quantum Computing (4 cr)

#### Processes, Programming, and Languages Courses (46xx):

Take 2–4 credits from the following:

- CSCI 4604—Processes, Programming, and Languages: Graphical User Interfaces (2 cr)
- CSCI 4605—Processes, Programming, and Languages: Refactoring (2 cr)
- CSCI 4651—Processes, Programming, and Languages: Programming Languages (4 cr)
- CSCI 4652—Processes, Programming, and Languages: Compilers (4 cr)
- CSCI 4653—Processes, Programming, and Languages: Software Engineering (4 cr)
- CSCI 4654—Processes, Programming, and Languages: Modern Functional Programming (4 cr)
- CSCI 4655—Processes, Programming, and Languages: Software Design and Development II (4 cr)
- CSCI 4656—Processes, Programming, and Languages: Human-Computer Interaction and Interface Design (4 cr)
- CSCI 4657—Processes, Programming, and Languages: Programming Languages for Client-Server Systems (4 cr)
- CSCI 4658—Processes, Programming, and Languages: Usability, Design, and Mobile Technologies (4 cr)

#### Math and Statistics Electives

MATH 1101 and above, excluding MATH 2211, or STAT 2xxx and above.

Take 12 or more credits from the following:

- CSCI 2701—Introduction to Data Science [M/SR] (4 cr)
- MATH 1101—Calculus I [M/SR] (5 cr)
- MATH 1102—Calculus II [M/SR] (5 cr)
- MATH 2101—Calculus III [M/SR] (4 cr)
- MATH 2111—Linear Algebra [M/SR] (4 cr)
- MATH 2202—Mathematical Perspectives [M/SR] (4 cr)
- MATH 2401—Differential Equations [M/SR] (4 cr)
- MATH 2501—Probability and Stochastic Processes [M/SR] (4 cr)
- MATH 3xxx, 4xxx
- STAT 2xxx, 3xxx, 4xxx

## Computer Science Minor

No more than two courses with a grade of D or D+, offset by an equivalent number of credits of A or B grades, may be used to meet the requirements for a computer science minor. Non-elective courses taken S-N may not be counted towards the minor. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Minor Required Courses

- CSCI 1201—Introduction to Digital Media Computation [M/SR] (4 cr)
- or CSCI 1301—Problem Solving and Algorithm Development [M/SR] (4 cr)

CSCI 1302—Foundations of Computer Science [M/SR] (4 cr)

CSCI 2101—Data Structures [M/SR] (5 cr)

*Take 5 or more credits from the following:*

CSCI 3402—Computing Systems: Concepts (3 cr)

CSCI 3403—Computing Systems: Practicum (2 cr)

CSCI 3501—Algorithms and Computability [M/SR] (5 cr)

CSCI 3601—Software Design and Development [M/SR] (5 cr)

*Take 4 or more credits from the following:*

CSCI 3xxx, 4xxx

### Minor Elective Courses

*Take 4 or more credits from the following:*

CSCI 2701—Introduction to Data Science [M/SR] (4 cr)

MATH 1021—Survey of Calculus [M/SR] (4 cr)

MATH 1101—Calculus I [M/SR] (5 cr)

MATH 1102—Calculus II [M/SR] (5 cr)

MATH 2101—Calculus III [M/SR] (4 cr)

MATH 2111—Linear Algebra [M/SR] (4 cr)

MATH 2202—Mathematical Perspectives [M/SR] (4 cr)

MATH 2401—Differential Equations [M/SR] (4 cr)

MATH 2501—Probability and Stochastic Processes [M/SR] (4 cr)

MATH 3xxx, 4xxx

STAT 1xxx, 2xxx, 3xxx, 4xxx

## Computer Science Course Descriptions

**CSCI 1001. Introduction to the Computing World.** (M/SR; 2 cr; no elective cr for CSci majors or minors; fall, offered periodically)

Basic hardware and software concepts, elementary data representation, problem solving techniques, algorithm development, introduction to web development, and methods for separation of content and presentation (such as HTML and CSS).

**CSCI 1201. Introduction to Digital Media Computation.** (M/SR; 4 cr; spring, every year)

Using images, sounds, and movies to introduce problem solving, data representation, data manipulation, and programming principles including recursion. Introduction to basic ideas in hardware, software, and computing.

**CSCI 1251. Computational Data Management and Manipulation.** (M/SR; 4 cr; no elective credit for CSci majors or minors; spring, every year)

Introduction to principles and practices of computational data management such as using advanced spreadsheet operations, designing and implementing algorithms to summarize and transform data sets, understanding organization of databases, writing and executing simple database queries, and creating effective data visualizations. Topics include basic issues of information security and introduction to modern technologies that support collaboration.

**CSCI 1301. Problem Solving and Algorithm Development.** (M/SR; 4 cr; fall, every year)

Introduction to different problem solving approaches, major programming paradigms, hardware, software, and data representations. Study of the functional programming paradigm, concentrating on recursion and inductively-defined data structures. Simple searching and sorting algorithms.

**CSCI 1302. Foundations of Computer Science.** (M/SR; 4 cr; spring, every year)

Basic proof techniques, propositional and predicate logic, induction and invariants, program correctness proofs, simple Big-Oh analysis of algorithms, set theory, introductory graph theory, and basic summations.

**CSCI 1801. The Design of Everyday Technologies.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Discussion and examination of examples of everyday things, issues surrounding the design of technologies for people, and the impacts of new technologies and tools on people in society. Discussion of how values and ethics are manifested in design. Study of design techniques and approaches with an emphasis on promoting design literacy. Includes discussion, readings, presentations, and a project. Requires attending two activities outside of class, a poster session, and a presentation.

**CSCI 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CSCI 2101. Data Structures.** (M/SR; 5 cr; prereq 1201 or 1301 or #; fall, every year)

Introduction to data structures, including stacks, queues, trees, and graphs; implementation of abstract data types and introduction to software testing, using object-oriented techniques and reusable libraries. (4 hrs lect, 2 hrs lab)

**CSCI 2701. Introduction to Data Science.** (M/SR; 4 cr; =[STAT 2701]; prereq 1201 or 1251 or 1301, Stat 1601 or Stat 2601 or Stat 2611 or #; spring, every year)

Same as Stat 2701. Introduction to data science and informatics and their application to real world scenarios. Computational approaches to data types; database creation including technologies such as SQL/no-SQL; data visualization; data reduction, condensation, partitioning; statistical modeling; and communicating results.

**CSCI 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CSCI 3402. Computing Systems: Concepts.** (3 cr; prereq 1302 and 2101 or #; spring, every year)

Overview of computing systems, operating systems, and networks. Sources of complexity. Fundamental abstractions such as memory, processing, and communication; memory management and data storage; threads, processes, race conditions and deadlock; and inter-process and inter-computer communication. Modularity and organization; virtualization; protection and security; performance.

**CSCI 3403. Computing Systems: Practicum.** (2 cr; prereq 1302 and 2101 or #; fall, every year)

Lab experience with key computing systems tools and concepts. Command-line tools; shell and system scripting; system programming. Pointers and explicit memory management. Digital logic, gates, electronics, and microcomputers. Network organization and communication; client-server programming. Processes and threads; parallel and distributed computing. Performance and profiling.

**CSCI 3501. Algorithms and Computability.** (M/SR; 5 cr; prereq 1302, 2101 or #; fall, every year)

Models of computation (such as Turing machines, deterministic and non-deterministic machines); approaches to the design of algorithms, determining correctness and efficiency of algorithms; complexity classes, NP-completeness, approximation algorithms. (4 hrs lect, 2 hrs lab)

**CSCI 3601. Software Design and Development.** (M/SR; 5 cr; prereq 1302, grade of at least C—in 2101, or #; spring, every year)

Design and implementation of medium—and large-scale software systems. Principles of organizing and managing such designs and implementations throughout their lifetime. Designing for modularity and software reuse; use of libraries. Dynamics of working in groups. Group work on a substantial software project.

**CSCI 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**CSCI 4403. Systems: Data Mining.** (2 cr; prereq 2101 or #; fall, spring, offered periodically)

An introduction to a new field which tries to solve the problem of how to store (warehouse) and how to extract (mine) valid, useful, and previously unknown data from a source (database or web) which contains an overwhelming amount of information. Algorithms applied include searching for patterns in the data, using machine learning, and applying artificial intelligence techniques.

**CSCI 4406. Systems: Wireless Data Networks.** (2 cr; prereq 3402, 3403 or #; fall, spring, offered periodically)

Licensed vs. unlicensed carrier frequencies. Physical layer characteristics and protocols. Network topologies. Discussion of current and upcoming standards. Data privacy and security.

**CSCI 4409. Systems: Programming for Parallel Architecture.** (2 cr; prereq 3402, 3403 or #; spring, offered periodically)

Study of programming models, languages, and approaches for parallel computer architectures. Topics include introduction to parallel computing and parallel architectures, approaches to program parallelization, mechanisms for communication and synchronization between tasks, and study of programming language support for parallel computation.

**CSCI 4451. Systems: Distributed Systems.** (4 cr; prereq 3402, 3403 or #; fall, spring, offered periodically)

An introduction to distributed systems/ computation. Topics include processes and threads, physical vs. logical clocks, interprocess communication and coordination, election algorithms, synchronization, distributed task scheduling, distributed shared memory, distributed file systems, and replicated data management.

**CSCI 4452. Systems: Computer Networks.** (4 cr; prereq 3402, 3403 or #; fall, spring, offered periodically)

Principles of computer networks. Network topologies, protocols, routing, internetworking, security and privacy.

**CSCI 4453. Systems: Database Systems.** (4 cr; prereq 2101 or #; fall, spring, offered periodically)

Introduction to relational, object-relational, and object database systems. Topics include the relational model, SQL and related query languages, JDBC and database applications programming, database design, query processing and optimization, indexing techniques, and transaction management.

**CSCI 4454. Systems: Robotics.** (4 cr; prereq 2101 or #; fall, spring, offered periodically)

An introduction to robotic systems including robot mechanics, algorithms in robotics, and sensor interfaces for autonomous mobile and arm robots. Concepts of kinematics and coordinate systems, real-time programming, embedded systems, pattern recognition algorithms, simulation environments, and subsumption architecture within the context of robotics applications are explored.

**CSCI 4456. Systems: Advanced Operating Systems.** (4 cr; prereq 3402, 3403 or #; fall, spring, offered periodically)

Broad exposure to advanced operating systems topics such as process communication, protection, security, memory management, operating system kernels, network operating systems, synchronization, naming, and distributed systems.

**CSCI 4457. Systems: Ubiquitous Computing.** (4 cr; prereq 3403 or #; fall, spring, offered periodically)

Study of the mechanisms and environments of ubiquitous computing. Topics may include computer and network architectures for ubiquitous computing, mobile computing mechanisms, multimodal interaction, pervasive software systems, location mechanisms, techniques for security and user-authentication, and experimental ubiquitous computing systems.

**CSCI 4458. Systems: Bioinformatic Systems.** (4 cr; prereq 3403 or #; fall, spring, offered periodically)

Introduction to bioinformatics with an emphasis on computer systems. Possible topics include: utilizing software for genetic sequencing, large-scale data management using databases, algorithms for construction of phylogenetic trees, bioinformatic scripting, and other tools for bioinformatics.

**CSCI 4459. Systems: Virtualization and Operating System Administration, Configuration, and Implementation.** (4 cr; prereq 3402 and 3403 or #; fall, spring, offered periodically)

The basics of virtualizing hardware and key systems services such as networking. Use of virtualization tools to support an incremental exploration of the installation and configuration of an operating system. More detailed exploration of the implementation details of certain operating system services as time allows.

**CSCI 4506. Theory: Fuzzy Logic and Fuzzy Sets.** (2 cr; prereq 3501 or #; fall, spring, offered periodically)

Fuzzy logic and fuzzy sets are used in expert systems, controllers, pattern recognition, databases, decision making, robotics, and economics. The basic theory of fuzzy sets and fuzzy logic along with a brief survey of some of the current research. May include presentations and/or a project.

**CSCI 4507. Theory: Data Compression.** (2 cr; prereq 3501 or #; fall, spring, offered periodically)

Introduction to data compression (including lossy and lossless compression techniques), wavelets, differential encoding techniques (including pulse code and delta modulation), and subband coding with applications to speech, audio, and images. Compression standards such as the CCITT international standard and MPEG audio compression standard.

**CSCI 4508. Theory: Algorithm Design.** (2 cr; prereq 3501 or #; fall, spring, offered periodically)

Approaches to the design of efficient algorithms for solving a variety of practical problems such as string matching or those that can be modeled on a tree or graph. Techniques studied include dynamic programming,

divide and conquer, greedy methods, backtracking, and approximation algorithms.

**CSCI 4511. Theory: Artificial Life.** (2 cr; prereq 2101 or #; fall, spring, offered periodically)

Introduction to the field of Artificial Life and the phenomena of living systems, with an emphasis on computational approaches to understanding the logic of living systems in artificial environments. Techniques and tools used to better understand the complex information processing that defines living systems, such as agent-based systems, evolutionary computation, cellular automata, and digital simulations.

**CSCI 4552. Theory: Advanced Algorithms.** (4 cr; prereq 3501 or #; fall, spring, offered periodically)

Techniques for designing and analyzing efficient algorithms to solve a variety of practical problems. Some algorithmic techniques include dynamic programming, greedy methods, and amortized analysis. Other topics include graph algorithms, string matching, approximation algorithms, and NP-Completeness.

**CSCI 4553. Theory: Evolutionary Computation and Artificial Intelligence.** (4 cr; prereq 2101 or #; fall, spring, offered periodically)

Introduction to Evolutionary Computation as an Artificial Intelligence tool for developing solutions to problems that are difficult to describe precisely or solve formally, as well as comparisons with other AI techniques. Includes discussions of theoretical background and tools, implementation issues, and applications.

**CSCI 4554. Theory: Cryptography.** (4 cr; prereq 1302, 2101 or #; fall, spring, offered periodically)

Theory and applications of cryptography. Overview of necessary mathematical concepts. Discussion of algorithms and protocols including public and private key encryption, authentication, and zero knowledge proofs.

**CSCI 4555. Theory: Neural Networks and Machine Learning.** (4 cr; prereq 1302, 2101 or #; fall, spring, offered periodically)

Study of the underlying theory, structure, and behavior of neural networks and of how neural networks compare to and can be used to supplement other methods of machine learning. Methods such as decision tree learning, inductive learning, reinforcement learning, supervised learning, and explanation-based learning are examined. Analysis of the strengths and weaknesses of various approaches to machine learning. Includes an implementation project.

**CSCI 4556. Theory: Computer Graphics.** (4 cr; prereq 1302, 2101 or #; fall, spring, offered periodically)

Introduction to basic concepts and algorithms in computer graphics, including three-dimensional geometry and various approaches to modeling three-dimensional scenes. An introduction to transformation and viewing, lighting, shading, texture, and color. Advanced topics may include ray tracing, radiosity, and animation. Students complete several significant projects.

**CSCI 4557. Theory: Quantum Computing.** (4 cr; prereq 1302, 2101, (3501 or Math 1101 or higher) or #; spring, offered periodically)

Summarization of relevant mathematical and quantum mechanical concepts. Basic quantum algorithms concepts and simple algorithms are explored, along with Shor's algorithm, Grover's algorithm, and the quantum Fourier transform.

**CSCI 4604. Processes, Programming, and Languages: Graphical User Interfaces.** (2 cr; prereq 3601 or #; fall, spring, offered periodically)

An exploration into designing Graphical User Interfaces. Aspects of human-computer interaction are discussed along with how to design good user interfaces. Students complete a project using Java's Swing.

**CSCI 4605. Processes, Programming, and Languages: Refactoring.** (2 cr; prereq 3601 or #; fall, spring, offered periodically)

Introduction to methodologies for the long-term development and maintenance of software systems. Discussion of methods of fixing errors and extending functionality in a controlled manner that builds on and improves the underlying system design, as well as tools for regression testing to help catch introduced errors. There is a significant programming component as well as change documentation and classroom presentations.

**CSCI 4651. Processes, Programming, and Languages: Programming Languages.** (4 cr; prereq 2101 or #; fall, spring, offered periodically)

History of programming languages, formal specification of syntax and semantics of programming languages from a variety of paradigms (procedural, functional, logic-programming, object-oriented, and parallel paradigms), modern language features.

**CSCI 4652. Processes, Programming, and Languages: Compilers.** (4 cr; prereq 3501, 3601 or #; fall, spring, offered periodically)  
Program translations from a variety of paradigms. Lexical analysis and parsing techniques, intermediate representations, type checking, code generation, error detection and recovery, optimization.

**CSCI 4653. Processes, Programming, and Languages: Software Engineering.** (4 cr; prereq 3601 or #; fall, spring, offered periodically)  
Examination of software engineering techniques and methodologies. Topics include software life cycle models, analytical and software tools used in software engineering, software metrics, testing techniques, design techniques, planning and estimation methodologies, and issues related to the reusability, portability, and interoperability of software systems. Emphasis on the application of these techniques and methodologies to real world problems. Includes a team-based software development project.

**CSCI 4654. Processes, Programming, and Languages: Modern Functional Programming.** (4 cr; prereq 1302, 2101 or #; fall, spring, offered periodically)  
Survey of concepts, tools, and techniques from the realm of functional programming. Topics include higher order functions, currying, type systems, concurrency models, mechanisms for managing state, and methods of compilation and evaluation such as graph reduction and term rewriting.

**CSCI 4655. Processes, Programming, and Languages: Software Design and Development II.** (4 cr; prereq 3601 or #; summer, offered periodically)  
Design and implementation of a medium-scale software system in an intensive, full-time lab setting where teams use object-oriented tools and agile development processes. Emphasis on the creation, evolution, and maintenance of system design.

**CSCI 4656. Processes, Programming, and Languages: Human-Computer Interaction and Interface Design.** (4 cr; prereq 2101 or #; fall, spring, offered periodically)  
Introduction to the design, evaluation, and implementation of interactive computing systems for human use with a particular emphasis on user interfaces. Possible domains include usability issues for desktop applications, embedded systems, and Web design. Student projects include evaluative studies and sample implementations.

**CSCI 4657. Processes, Programming, and Languages: Programming Languages for Client-Server Systems.** (4 cr; prereq 3601 or #; fall, spring, offered periodically)  
Client/Server model and related Internet protocols. Server-side data storage. Common programming languages and technologies for client-side and server-side data processing. Related security issues.

**CSCI 4658. Processes, Programming, and Languages: Usability, Design, and Mobile Technologies.** (4 cr; prereq 3601 or #; fall, offered periodically)  
Design, evaluation, and use of innovative handheld, mobile, and wearable technologies. Topics include needs and issues unique to mobile users, as well as social and organizational impacts of mobile technologies. The course consists of a mix of lectures and seminar-style discussions, with projects incorporating important aspects of design, implementation, and evaluation.

**CSCI 4901. Senior Seminar.** (1 cr; S-N only; prereq IS 1091 or #, jr or sr; fall, spring, every year)  
In-depth survey of literature in a specific computer-related field of the student's choice. Students analyze various articles or similarly published works, synthesize their contents, and present their work formally in a conference setting. Multiple writing and speaking experiences reviewed by faculty and classmates. Requires attendance and presentation at a student conference near the end of the semester in addition to regular class meetings.

**CSCI 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Creative Writing Minor for non-English Majors

(See English.)

## Dance (DNCE)

### *Division of the Humanities*

The program explores dance as a performance art form and cultural expression of various societies throughout the world. It is enhanced by performance opportunities, guest choreographers, conference participation, and other activities sponsored by the UMM Dance Ensemble student organization.

**Objectives**—The dance program helps students develop a working knowledge and a conceptual understanding of dance as an art form. Students are introduced to the cultural roots of dance, the traditions of training for dance performance, and the skills necessary for dance performance. Students interested in pursuing dance may create an area of concentration or emphasis by combining these courses with courses from other disciplines.

## Dance Course Descriptions

**DNCE 1321. Introduction to Modern Dance and Ballet.** (ART/P; 1 cr [max 2 cr]; S-N only; fall, every year)  
Practice in the fundamental movement vocabulary and steps of dance with an emphasis on traditional ballet techniques and modern dance interpretations. Exploration of body awareness through improvisational exercises and compositional studies. Discussion of the cultural origins of style in dance and the role of dance in contemporary life.

**DNCE 1322. Introduction to Jazz and Modern Dance.** (ART/P; 1 cr [max 2 cr]; S-N only; spring, every year)  
Fundamental movement vocabulary and steps of dance from the unique perspective of American Jazz combined with modern dance. Explores body awareness through improvisational exercises and composed studies. Discussion of dance in contemporary life, individual style, and the cultural origins of jazz music and movement.

**DNCE 1323. Introduction to Tap Dance.** (ART/P; 1 cr [max 2 cr]; S-N only; Tap shoes required; fall, every year)  
Practice in footwork and introduction to vocabulary that forms the basis of the percussive dance form. Discussion of origins of the dance form, different styles, and relationship to musical structures. Practice in improvisational Tap skills.

**DNCE 1330. Introduction to Dance in Musical Theatre.** (ART/P; 1 cr [max 2 cr]; fall, spring, offered periodically)  
A basic study of dance including its vocabulary, technique, and history. Examine the works of choreographers such as Bob Fosse, Agnes de Mille, Michael Bennett, and Twyla Tharp. The class is a combination of movement and discussion.

**DNCE 1331. Ballet I.** (ART/P; 1 cr [max 2 cr]; prereq 1321 or #; fall, spring, every year)  
A basic study of ballet including its vocabulary, technique, and history. Appropriate for beginning-level students or students who have completed Dnce 1321 or 1322.

**DNCE 1332. Jazz Dance I.** (ART/P; 1 cr [max 2 cr]; prereq 1322 or #; fall, every year)  
A basic study of jazz dance including its technique, history, and applications. Appropriate for beginning-level students or students who have completed Dnce 1321 or 1322.

**DNCE 1333. Modern Dance I.** (ART/P; 1 cr [max 2 cr]; prereq 1321 or 1322 or #; spring, every year)  
A basic study of modern dance including alignment, technique, and history. Appropriate for beginning-level students or students who have completed Dnce 1321 or 1322.

**DNCE 1334. Tap Dance I.** (ART/P; 1 cr [max 2 cr]; prereq 1323 or #; Tap shoes required; spring, every year)  
Practice in footwork and advanced beginning vocabulary of this percussive dance form, including opportunities for improvisation. Learn about the origins of the dance form, different styles and how they evolved, and the dance form's relationship to musical structures. Learn and compose Tap dance choreography.

**DNCE 2011. Dance in Society.** (HDIV; 2 cr; spring, odd years)  
Through a broad, cross-cultural survey of the different ways in which dance functions in the modern world, students gain an appreciation of the way this art form reflects social and historical experiences. Includes lectures, readings, and opportunities to see dance through videos, observations, and live performances.

**DNCE 2301. Practicum in Dance.** (ART/P; 1 cr; prereq #; spring, every year)

Directed projects in performance and production aspects of dance for the stage. Projects can be focused on either choreography or technical theatre for dance.

**DNCE 2311. Dance Composition.** (ART/P; 2 cr [max 8 cr]; fall, spring, offered periodically)

Introduction to the basic elements of choreography, including the use of space, time, energy, abstraction, motif and development, and the selection of music. Using improvisation and assigned movement problems to learn the process of crafting solo and group choreography.

**DNCE 2320. Contemporary and Modern Technique and Choreography.** (ART/P; 1 cr [max 2 cr]; prereq 1321 or #; fall, spring, offered periodically)

Builds upon basic dance vocabulary with movement exercises drawn from traditional schools of modern dance technique. Dancers examine contemporary technique and place an emphasis on aesthetic and expressive qualities that lead to performance.

**DNCE 2331. Ballet II.** (ART/P; 1 cr [max 2 cr]; prereq 1331 or #; ballet slippers required; fall, every year)

A low intermediate-level study of classical ballet. Emphasis on advancing technical skill through conditioning and performance of ballet steps and combinations.

**DNCE 2332. Jazz Dance II.** (ART/P; 1 cr [max 2 cr]; prereq 1332 or #; spring, every year)

Builds upon basic dance vocabulary with emphasis on the movement vocabulary of jazz dance. Emphasis on African dance roots and stylistic variations in contemporary jazz dance forms. Includes a performance experience.

**DNCE 2333. Modern Dance II.** (ART/P; 1 cr [max 2 cr]; prereq 1333 or #; fall, every year)

Builds upon basic dance vocabulary with movement exercises drawn from traditional schools of modern dance technique (Wigman/ Holm, Graham, Humphrey/Limon, Horton, Cunningham). Emphasis is on advancing technical skills through conditioning, improvisation, and movement combinations. Includes a performance experience.

**DNCE 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, summer, every year)

A learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum such as dance history, choreography and directing, dance education for children.

**DNCE 3011. Dance History.** (FA; 4 cr; prereq 2011 or #; spring, offered periodically)

Identify significant developments in the history of Dance. Trace the roots of Ballet and Modern Dance and their impact on dance as performance art in Western society. Examine the history of select styles of non-Western dance and research major figures in dance history.

**DNCE 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, summer, every year)

A learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum such as dance history, choreography and directing, dance education for children.

**DNCE 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, summer, every year)

A learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum such as dance history, choreography and directing, dance education for children.

## Economics (ECON)

### Division of the Social Sciences

**Objectives**—The economics curriculum is designed to ensure that students

- \* understand the nature and functioning of the market system;
- \* are able to define criteria for assessing efficiency in the provision of goods and services;
- \* investigate and assess the operation of economic institutions;
- \* are able to evaluate alternative policies intended to enhance economic outcomes;

\* develop competence in quantitative methods and computing methods;

\* are able to conceptualize and analyze problems using the tools of economic theory, and communicate the results;

\* are competent in oral and written communication; and

\* are adequately prepared for graduate or professional school.

## Economics Major

Grades of D or D+ in ECON 1111-1112, MATH 1101, and STAT 1601 or 2601 may not be used to meet the major requirements. Up to 4 credits of other economics coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B.

Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

*Students should complete the following during their first two years:*

ECON 1111—Principles of Microeconomics [SS] (4 cr)

ECON 1112—Principles of Macroeconomics [SS] (4 cr)

MATH 1101—Calculus I [M/SR] (5 cr)

STAT 1601—Introduction to Statistics [M/SR] (4 cr)

or STAT 2601—Statistical Methods [M/SR] (4 cr)

*Students should complete the following before their senior year:*

ECON 3201—Microeconomic Theory [SS] (4 cr)

ECON 3202—Macroeconomic Theory [SS] (4 cr)

ECON 3501—Introduction to Econometrics [M/SR] (4 cr)

### 4xxx Level Courses

*Take 4 or more credits from the following:*

ECON 4101—Labor Economics I [HDIV] (2 cr)

ECON 4102—Labor Economics II (2 cr)

ECON 4111—Mathematical Economics I (2 cr)

ECON 4112—Mathematical Economics II (2 cr)

ECON 4121—International Trade Theory (2 cr)

ECON 4131—International Finance (2 cr)

ECON 4141—Empirics of Economic Growth (2 cr)

ECON 4501—Senior Research Seminar in Economics and Management (2 cr)

ECON 4993—Directed Study (1–5 cr)

### Elective Courses

No more than 4 credits from each of the following can be applied to the major:

ECON x993—Directed Study

ECON 4501—Senior Research Seminar in Economics and Management

*Take 14 or more credits from the following:*

ECON 3005—Experimental and Behavioral Economics I [SS] (2 cr)

ECON 3006—Experimental and Behavioral Economics II [SS] (2 cr)

ECON 3007—Environmental and Natural Resource Economics I [ENVT] (2 cr)

ECON 3008—Environmental and Natural Resource Economics II [ENVT] (2 cr)

ECON 3009—Political Economy [SS] (4 cr)

ECON 3011—Cost-Benefit Analysis [ENVT] (4 cr)

ECON 3014—Game Theory: The Theory of Strategic Behavior I [SS] (2 cr)

ECON 3015—Game Theory: The Theory of Strategic Behavior II [SS] (2 cr)

ECON 3113—Money, Banking, and Financial Markets [SS] (4 cr)

ECON 3121—Public Economics I [SS] (2 cr)

ECON 3122—Public Economics II [SS] (2 cr)

ECON 3131—Comparative Economic Systems [IP] (2 cr)

ECON 3133—Economics of China [IP] (2 cr)

ECON 3134—Cooperative Business Model [SS] (2 cr)

ECON 3141—Economic Development and Growth I [IP] (2 cr)

ECON 3142—Economic Development and Growth II [IP] (2 cr)

ECON 3153—Contemporary Global Economic Issues [IP] (2 cr)

ECON 3211—History of Economic Thought I [HIST] (2 cr)

ECON 3212—History of Economic Thought II [HIST] (2 cr)  
 ECON 3351—Globalization: Examining India's Social and Economic Development [IP] (4 cr)  
 ECON 3993—Directed Study (1–5 cr)  
 ECON 3xxx

## Economics Minor

Grades of D or D+ in ECON 1111-1112, MATH 1101, and STAT 1601 or 2601 may not be used to meet minor requirements.

Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

ECON 1111—Principles of Microeconomics [SS] (4 cr)  
 ECON 1112—Principles of Macroeconomics [SS] (4 cr)  
 ECON 3201—Microeconomic Theory [SS] (4 cr)  
 ECON 3202—Macroeconomic Theory [SS] (4 cr)  
 MATH 1101—Calculus I [M/SR] (5 cr)  
 STAT 1601—Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601—Statistical Methods [M/SR] (4 cr)

### Elective Courses

*No more than 4 credits from each of the following can be applied to the major:*

ECON x993—Directed Study  
 ECON 4501—Senior Research Seminar in Economics and Management

*Take 6 or more credits from the following:*

ECON 3005—Experimental and Behavioral Economics I [SS] (2 cr)  
 ECON 3006—Experimental and Behavioral Economics II [SS] (2 cr)  
 ECON 3007—Environmental and Natural Resource Economics I [ENVT] (2 cr)  
 ECON 3008—Environmental and Natural Resource Economics II [ENVT] (2 cr)  
 ECON 3009—Political Economy [SS] (4 cr)  
 ECON 3011—Cost-Benefit Analysis [ENVT] (4 cr)  
 ECON 3014—Game Theory: The Theory of Strategic Behavior I [SS] (2 cr)  
 ECON 3015—Game Theory: The Theory of Strategic Behavior II [SS] (2 cr)  
 ECON 3113—Money, Banking, and Financial Markets [SS] (4 cr)  
 ECON 3121—Public Economics I [SS] (2 cr)  
 ECON 3122—Public Economics II [SS] (2 cr)  
 ECON 3131—Comparative Economic Systems [IP] (2 cr)  
 ECON 3133—Economics of China [IP] (2 cr)  
 ECON 3134—Cooperative Business Model [SS] (2 cr)  
 ECON 3141—Economic Development and Growth I [IP] (2 cr)  
 ECON 3142—Economic Development and Growth II [IP] (2 cr)  
 ECON 3153—Contemporary Global Economic Issues [IP] (2 cr)  
 ECON 3211—History of Economic Thought I [HIST] (2 cr)  
 ECON 3212—History of Economic Thought II [HIST] (2 cr)  
 ECON 3351—Globalization: Examining India's Social and Economic Development [IP] (4 cr)  
 ECON 3501—Introduction to Econometrics [M/SR] (4 cr)  
 ECON 3993—Directed Study (1–5 cr)  
 ECON 4101—Labor Economics I [HDIV] (2 cr)  
 ECON 4102—Labor Economics II (2 cr)  
 ECON 4111—Mathematical Economics I (2 cr)  
 ECON 4112—Mathematical Economics II (2 cr)  
 ECON 4121—International Trade Theory (2 cr)  
 ECON 4131—International Finance (2 cr)  
 ECON 4141—Empirics of Economic Growth (2 cr)  
 ECON 4501—Senior Research Seminar in Economics and Management (2 cr)  
 ECON 4993—Directed Study (1–5 cr)  
 ECON 3xxx, 4xxx

### Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

## Economics Course Descriptions

### ECON 1103. Essentials of Economics. (SS; 3 cr; fall, spring, every year)

The first half of the course develops theories related to individual and firm decision-making. Students will learn how consumers and producers respond to price changes, how price is determined in the market, concepts of elasticity, gains from trade, and how different types of firms maximize profit. The latter half of the course will introduce the theories related to aggregate economy. Specific attention will be given to models that explain business cycles fluctuations and policy initiatives to ameliorate them.

### ECON 1111. Principles of Microeconomics. (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Study of scarce resource allocation in a market economy. Supply and demand, consumer theory, theory of the firm, market structure, pricing of factors of production, income distribution and the role of government.

### ECON 1112. Principles of Macroeconomics. (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Introduction to basic economic problems, concepts, and theoretical models. U.S. economic institutions and the economic organization of society. The role of markets in the production and distribution of societal resources. Measurement of economic performance; national income, inflation, and unemployment; competing macroeconomic theories and stabilization policies.

### ECON 1993. Directed Study. (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

### ECON 2993. Directed Study. (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

### ECON 3005. Experimental and Behavioral Economics I. (SS; 2 cr; prereq 1111, 1112, Math 1101 or #; fall, spring, offered periodically)

Introduction to economic experiments as controlled tests of microeconomic and game–theoretic behavioral predictions. In-class economic experiments, elements of non–cooperative game theory, results of market and social preference experiments, and empirical applications.

### ECON 3006. Experimental and Behavioral Economics II. (SS; 2 cr; prereq 3005 or #; fall, spring, offered periodically)

Advanced concepts and applications in experimental and behavioral economics.

### ECON 3007. Environmental and Natural Resource Economics I. (ENVT; 2 cr; prereq 1111 or #; fall, spring, offered periodically)

An overview of "brown" pollution and "green" sustainability issues in environmental and natural resource economics. Emphasis on the role of market failures in causing environmental problems and on the design of market mechanisms and incentive regulations to solve those problems. Analysis of current federal policy in the areas of water and air pollution.

### ECON 3008. Environmental and Natural Resource Economics II. (ENVT; 2 cr; prereq 3007 or #; fall, spring, offered periodically)

The economic analysis of sustainability, focusing on market designs to discourage over–exploitation of both renewable and exhaustible natural resources. Topics include markets for water, fisheries, and energy.

### ECON 3009. Political Economy. (SS; 4 cr; =[ECON 3004, ECON 3003]; prereq 1111, 1112 or #; spring, offered periodically)

The historical evolution, methodological relevance, and basic structure of the modern capitalist economy, including the dynamics of capital accumulation, economic crisis, transformation and regulating mechanism of contemporary capitalism, and hegemonic tendency of economy over polity and other aspects of life in contemporary society.

### ECON 3011. Cost-Benefit Analysis. (ENVT; 4 cr; prereq 1111; spring, offered periodically)

Cost-Benefit Analysis is a widely used method for comparing the benefits and costs of competing alternatives a decision-maker is considering. Derive best methods for conducting Cost-Benefit Analysis, building upon a solid understanding of the theory underlying it. Successful completion of this course allows students to apply the techniques of Cost-Benefit Analysis, and understand the strengths and weaknesses of CBA, including valuation and discounting.



**ECON 3014. Game Theory: The Theory of Strategic Behavior I.** (SS; 2 cr; prereq 1111 or #; no credit for students who have received cr for IS 3206H; spring, even years)

The analytic approach to strategic interaction. Strategic interaction takes place among people when the payoffs to each person depend on the choices of all the others, and each person knows this fact in choosing their behavior. Development of the basic concepts of the theory of strategic interaction, including the definition of a strategy, extensive form and strategic form representations of the same game, and the solution concepts of Nash equilibrium and rollback equilibrium. A selection of applications of economic interest are covered, such as market entry deterrence and social dilemma games.

**ECON 3015. Game Theory: The Theory of Strategic Behavior II.** (SS; 2 cr; prereq 3014 or #; spring, even years)

Extensions to the basic analytic theory of strategic interaction that widen its applicability, including topics such as repeated games, asymmetric information, and refinements to basic solution concepts. A selection of applications of economic interest, such as screening, signaling, and brinkmanship.

**ECON 3113. Money, Banking, and Financial Markets.** (SS; 4 cr; prereq 1111, 1112 or #; fall, every year)

Nature and function of money; role of commercial banks and other financial institutions; structure and function of Federal Reserve system; monetary policies for stabilization and growth; and a survey and synthesis of major theories on the value of money.

**ECON 3121. Public Economics I.** (SS; 2 cr; prereq 1111, 1112 or #; spring, offered periodically)

Analysis of the economics of public expenditures.

**ECON 3122. Public Economics II.** (SS; 2 cr; prereq 1111, 1112 or #; spring, offered periodically)

Analysis of the economics of taxation.

**ECON 3131. Comparative Economic Systems.** (IP; 2 cr; prereq 1111, 1112 or #; fall, spring, offered periodically)

Comparison of the theory and functioning of the major economic systems of the world; economic reform in capitalist and socialist economies.

**ECON 3133. Economics of China.** (IP; 2 cr; prereq 1111, 1112; fall, spring, offered periodically)

Examine the sources of economic growth in China, one of the world's largest and fastest-growing economies. Analyze the restructuring and reforms made to the economy, including the opening of the economy to world trade.

**ECON 3134. Cooperative Business Model.** (SS; 2 cr; =[MGMT 3134]; prereq 1111 or #; spring, even years)

Same as Mgmt 3134. In the northern plains of the United States, cooperative businesses, including consumer, producer, and worker cooperatives, have made significant contributions to economic growth and development. Identify the unique economic, legal, and organizational characteristics of these firms and their role in the economy. Special attention is given to the potential role of cooperative business organizations in community development.

**ECON 3141. Economic Development and Growth I.** (IP; 2 cr; prereq 1111, 1112 or #; fall, every year)

Nature and meaning of economic development. Theories of economic growth and the historical experience of now developed countries. General development problems facing developing countries.

**ECON 3142. Economic Development and Growth II.** (IP; 2 cr; prereq 3141 or #; fall, every year)

Current development problems and policies in developing countries; the possibilities and prospects for future development. Case studies examining the development progress of these countries.

**ECON 3153. Contemporary Global Economic Issues.** (IP; 2 cr; prereq 1111, 1112, Stat 1601, or #; spring, offered periodically)

Many of the most important global issues are economic in nature. Questions of population growth and aging, economic and political stability, security, terrorism, trade policy, poverty, development, the environment, energy, technology transfer, and even public health and education, in a global context can only be properly understood with some knowledge of economic principles. Gain knowledge of economic ideas necessary to understand and to criticize professional economic advice about global affairs. Strong emphasis on argumentation, rhetoric, and ability to debate economic ideas in a given framework.

**ECON 3172. Strategic Firm Interaction and Market Structures.** (4 cr; prereq 1111 or #; spring, offered periodically)

Firms must interact strategically in all market settings except perfect competition and pure monopoly. The course begins with imperfect markets for simple commodities and a consideration of substitutes and complements. More advanced models are then presented which develop topics such as quality differentiation, entry deterrence, collusion, mergers along the supply chain, various types of price discrimination, and natural monopoly. Emphasis is on the relative efficiency of different market structures, with some consideration of options for government regulation.

**ECON 3201. Microeconomic Theory.** (SS; 4 cr; prereq 1111, Math 1101 or #; fall, every year)

Analytical approach to decision making by individual economic units in the output and input markets, under perfect and imperfect market conditions. Externalities and role of government.

**ECON 3202. Macroeconomic Theory.** (SS; 4 cr; prereq 1112, Math 1101 or #; spring, every year)

The theory of national income determination; inflation, unemployment, and economic growth in alternative models of the national economy.

**ECON 3211. History of Economic Thought I.** (HIST; 2 cr; prereq 1111, 1112; fall, every year)

The origin and development of economic thought from Mercantilism through the classical school. Among others, Adam Smith and Karl Marx are featured. Nature of economics as a social science through the study of its historical development.

**ECON 3212. History of Economic Thought II.** (HIST; 2 cr; prereq 3211 or #; fall, every year)

The development of economic thought from Marx and the end of the classical school, through the development of more modern approaches. In addition to the demise of classical thought, a selection from the thinkers who contributed to the foundations of modern microeconomics and/or macroeconomics is covered. Nature of economics as a social science, through the study of its historical development.

**ECON 3351. Globalization: Examining India's Social and Economic Development.** (IP; 4 cr; =[MGMT 3351]; prereq 1111 or 1112 or #; spring, offered periodically)

Same as Mgmt 3351. Observe and study the impact of globalization on the Indian economy. Examine the growing class divide between the middle and upper middle class and the lower class. Study the problem of mass poverty in India and its various ramifications such as child labor, lack of education and basic health care, and the inherent gender bias. Examine sustainable grass roots efforts to combat some of these problems.

**ECON 3501. Introduction to Econometrics.** (M/SR; 4 cr; prereq 3201 or 3202, Stat 1601; spring, every year)

Designing empirical models in economics. Simple and multiple regression analysis. Violations of classical assumptions in regression analysis. Logit and probit models; simultaneous equation models and lag models. Emphasis on application techniques to economic issues.

**ECON 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ECON 4101. Labor Economics I.** (HDIV; 2 cr; prereq 3201 or #; fall, every year)

Wage and employment determination. Distribution of earnings and earnings inequality by race and sex. Labor supply applications.

**ECON 4102. Labor Economics II.** (2 cr; prereq 3201 or #; fall, every year)

Functioning and performance of the labor market. Heterodox explanations of labor market behavior. Labor demand applications.

**ECON 4111. Mathematical Economics I.** (2 cr; prereq 3201, 3202 or #; fall, spring, offered periodically)

Application of mathematical methods to economic analysis. Mathematical formulations and solution of optimizing models pertaining to households and firms and of adjustments to disturbances.

**ECON 4112. Mathematical Economics II.** (2 cr; prereq 3201, 3202 or #; fall, spring, offered periodically)

Topics include linear modeling, input-output analysis and linear programming, efficiency and exchange, comparative static analysis, and dynamic microeconomic and macroeconomic models.

**ECON 4121. International Trade Theory.** (2 cr; prereq 3201 or Mgmt 3123 or #; spring, every year)  
Overview of why trade occurs, pattern of trade and international factor movement. Effect of trade and trade policy on the economy. Current topics in trade theory.

**ECON 4131. International Finance.** (2 cr; prereq 3202 or #; spring, every year)

Foreign exchange markets; theories of exchange rate determination; fixed vs. flexible rate systems; theories of balance of payments adjustments; international quantity of money theory; international reserves; international monetary system (past, present, and future); internal and external balance, international economic policy coordination, international debt problem; effect of international sector on domestic growth and stability.

**ECON 4141. Empirics of Economic Growth.** (2 cr; prereq 3202 or 3023, 3501; spring, offered periodically)

Presentation of the recent developments in economic growth with an emphasis on empirical research. Students try to understand "Why are some countries so rich and some countries so poor?" In doing so, students first explore the proximate causes of economic growth such as physical capital, human capital, and productivity, and later move on to explore the role played by fundamental causes such as institutions, geography, and deep history.

**ECON 4501. Senior Research Seminar in Economics and Management.** (2 cr [max 4 cr]; prereq sr or 3501 or #; full year course begins in fall sem; fall, every year)

Seminar on selected topics in economics and management. Guided research sessions familiarize students with literature in the field. Students are required to make a formal presentation on their research topic and attend presentations by their peers.

**ECON 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Education Programs

### *Division of Education*

(See Education; Education, Elementary; Education, Secondary; Sport Management, and Sport Studies and Athletics.)

UMM offers all students the opportunity to study education and its role in society. Most courses with the "Ed" designator meet general education requirements, and enrollment in these courses is open and not limited to students pursuing teaching licensure.

The Division of Education offers a major and teaching licensure in elementary education (K–6) with optional endorsement areas in preprimary (age 3–grade 3); and middle level (grades 5–8) communication arts and literature, mathematics, science, and social studies. Licensure of secondary school teachers is offered in chemistry (9–12), communication arts and literature (5–12), earth and space science (9–12), French (K–12), general science (5–8), instrumental music (K–12), life science (9–12), mathematics (5–12), physics (9–12), social studies (5–12), Spanish (K–12), visual arts (K–12), and vocal music (K–12). Students may elect to complete coursework leading to endorsement for head varsity coaches in Minnesota. See Sport Studies and Athletics (SSA) discipline for course listings.

Teacher education at UMM is part of the lifelong development of an effective teacher. It is based on a belief that a successful teacher is one who reflects on teaching and makes instructional decisions that ensure student learning. Teacher education at UMM uses personalized instruction and provides opportunities for a variety of rural, urban, and suburban placements in Minnesota, other states, and other countries. Teacher candidates are prepared to employ human, technological, and other resources in the effective instruction of diverse populations of learners. The program introduces prospective teachers to the teaching profession and prepares them to demonstrate:

1. **Knowledge** of themselves and of learners; liberal arts disciplines; diverse cultures, social organizations, and societies; growth, development, and learning; communication and language; problem solving; and effective teaching and learning;

2. **Skill** in all aspects of teaching including setting goals and objectives; selecting appropriate content, activities, and materials; implementing effective lessons; assessing student learning; and evaluating oneself with the goal of continuous improvement;
3. **Dispositions** associated with effective teaching, including collaboration; ethics and integrity; equity and respect; efficacy and commitment to learning; responsibility; and enthusiasm and openness;
4. **Leadership** when addressing educational issues developed and demonstrated through issue-oriented readings and research; topic presentations; expert groups; peer teaching; senior presentations; and participation in University clubs, organizations, committees, and research programs with UMM faculty.

Admission requirements must be met and admission granted before students can enroll in courses in either the elementary or secondary teacher education programs. These admission requirements are set by UMM and the state of Minnesota. They are described under Admission to the Major in the Education, Elementary (EEd) section and Admission to the Program in the Education, Secondary (SeEd) section of this catalog.

## Education (ED)

### *Division of Education*

This discipline is designed to meet general education requirements and support teacher licensure programs.

**Objectives**—These courses offer students the opportunity to study education and its role in society, explore teaching as a career, and understand the needs of all learners in all places.

## Education Course Descriptions

**ED 1801. Critical Issues in K-12 Education.** (1C; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, spring, offered periodically)

The education of K-12 students is reported on and discussed in the media on a daily basis and federal programs such as No Child Left Behind and Race to the Top influence the functioning of schools and the education of the K-12 student. State regulations and initiatives are also an important factor in how students learn and how teachers are prepared to teach. How can the average citizen make sense of all this information? Delve into some of the critical issues facing the education of K-12 students. Topics may include issues such as the achievement gap, assessments, bullying, inclusion and equity, and opportunity.

**ED 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ED 2111. Tutor-Aide Practicum.** (1 cr; S-N only; prereq coreq 2121; fall, spring, summer, every year)  
Students complete 30 hours of preprofessional field experience in the schools.

**ED 2121. Introduction to Education.** (SS; 3 cr; A-F only; prereq coreq 2111; fall, spring, summer, every year)  
History, philosophy, and purposes of American education; classroom practices and effective teaching; instructional technology; and certification requirements in education.

**ED 2131. Foundations of Reading.** (2 cr; A-F only; this course is a prerequisite for admission to the Elementary Education program; open to students from all disciplines; spring, every year)  
Theoretical frameworks that undergird the process of reading and its development, including language and linguistic foundations. Stages of reading and fundamentals of reading processes, including phonemic awareness, phonics, fluency, vocabulary, and reading comprehension. Survey of research on key aspects of literacy development and assessment.

**ED 2201. Perspectives on Young Adult Literature: Schooling, Society, and Culture.** (HUM; 4 cr; summer, offered periodically)  
Exposure to multiple genres of young adult literature and brief introduction to various types of response to literature. Special emphasis on multicultural literature, the role of literature in forming moral and cultural values, using literature in the grade 5-12 classroom, and reader response theory and pedagogy. Students read, respond to, select, and evaluate young adult literature.

**ED 2221. Diversity and Identity in Literature and Film.** (HDIV; 4 cr; spring, offered periodically)

A survey of key concepts in diversity research (including power, prejudice, social justice, institutionalized discrimination, tolerance) as well as identity representation in literary and film texts. Additionally, students analyze power relationships and how they impact and are impacted by such institutions as schooling and the media.

**ED 2601. Development, Learning, and Teaching.** (SS; 4 cr; A-F only; spring, every year)

Introductory exploration of perspectives on child and adolescent development including cognitive, social/emotional, personal, physical, and language development and theories of learning, with a strong focus on the implications for effective teaching in the P-12 classroom. This course is a prerequisite for admission to the Elementary and Secondary Education programs.

**ED 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ED 3011. Global Practicum: Building Intercultural Perspectives for PK-12 Education.** (IP; 6-10 cr ; S-N only; prereq jr status, #; credit will not be granted if credit has been received for IS 3011; special fee required; fall, spring, summer, every year)

The practicum provides students interested in education an opportunity to build their intercultural competence, compare and contrast educational systems, and reflect on teaching and learning by assisting a PK-12 mentor teacher in a school.

**ED 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ED 4121. Strategies for Inclusive Schooling.** (2 cr; A-F only; prereq EIED 3101, 3102, 3103, 3111 or admission to the secondary education program; fall, every year)

Strategies and techniques for developing inclusive learning environments. Discussion of the differences in strategies in accommodations and modifications. Emphasizes adaptations for students with mild, moderate, and severe disabilities. Introduction to various methods of identifying students with disabilities and follow-up interventions.

**ED 4901. The Teacher and Professional Development.** (1 cr; A-F only; prereq EIED or SeEd 4201 or 4204 or #; spring, every year)

Capstone experience. Professional development issues and philosophy of education are included as topics of study.

**ED 4903. Kindergarten Education.** (4 cr; A-F only; prereq #; summer, every year)

Study of kindergarten education. Topics include: historical foundations, philosophy, current issues and trends, developmental characteristics and organizational needs of kindergarten children, and developmentally appropriate practices and instruction in the classroom.

**ED 4911. Kindergarten Practicum.** (1 cr; S-N only; prereq coreq 4903; summer, every year)

Field experience with kindergarten children.

**ED 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Elementary Education (ELED)

### *Division of Education*

A separate admissions process must be completed and admission granted before students enroll in this program.

The elementary education major leads to Minnesota licensure as a teacher of grades K-6. Students obtaining a K-6 license may also pursue an optional endorsement in one of the following five areas: 1) preprimary, 2) middle level communication arts and literature, 3) middle level mathematics, 4) middle level science, and 5) middle level social studies.

**Objectives**—Course work in elementary education is designed to meet standards of effective practice required for licensure and provide prospective teachers with opportunities to understand central

concepts, tools of inquiry, and structures of disciplines taught in the elementary school; understand child and adolescent development theory, individual and group motivation and diversity among learners; create instructional opportunities adapted to learners of diverse cultural backgrounds and abilities; use instructional strategies and technologies that reflect personal knowledge of effective verbal, nonverbal, and media communication techniques; encourage development of critical thinking, problem solving, and performance skills; understand and use formal and informal methods of student assessment; and collaborate with parents/guardians, families, school colleagues, and the community in an ethical manner.

Students pursuing Minnesota teaching licensure at the elementary K-6 level and optional endorsement areas must have successfully completed licensure requirements in the elementary teacher education program and passed state and federally mandated examinations for new teachers. A minimum GPA of 2.50 overall with 2.75 minimum GPA in elementary education major and licensure area(s). All courses that fulfill requirements for teaching licensure in elementary education (discipline, professional education, or other courses) must be completed with a grade of C–or better. Required courses must be taken A-F, unless they are offered S-N only.

## Admission

Students must complete 60 credits before admission to the program.

A GPA above 2 is preferred for the following:

- 2.75 already admitted to the degree-granting college
- 2.75 transferring from another University of Minnesota college
- 2.75 transferring from outside the University

For admission to the major's two-year course sequence which begins each fall, students must follow the application procedure. Information sessions are held periodically to provide an overview of admissions and program requirements.

Students transferring from other schools must be admitted to UMM before admission to the elementary education program can be offered. Transfer students should seek academic planning advice from the education faculty in advance of application to the program.

### Requirements:

1. Completion of the Minnesota Teacher Licensure Examinations: Basic Skills.
2. Minimum GPA of 2.50 overall with 2.75 minimum GPA in EIED major and licensure area(s). No grade below C–will be accepted in these courses.
3. Approximately 60 credits completed by the end of the sophomore year.
4. Approval of the faculty based on an interview, recommendations, assessment of prior experience (especially with children and other cultures), and progress toward degree.
5. Admission to UMM.

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#). Required prerequisites

### Courses Required for Admission

ED 2111–Tutor-Aide Practicum (1 cr)

ED 2121–Introduction to Education [SS] (3 cr)

ED 2131–Foundations of Reading (2 cr)

ED 2601–Development, Learning, and Teaching [SS] (4 cr)

## Elementary Education Major

All courses required for a major in elementary education must be completed with a grade of C–or better. Required courses must be taken A-F, unless they are offered S-N only. A minimum GPA of 2.75 is required in the major to graduate. The GPA includes all course work. Grades of "F" are included in GPA calculation until they are replaced.

Successful completion of course assignments, elementary education course grades of C–or better, satisfactory completion of field experiences, and minimum GPA of 2.50 overall with 2.75 minimum GPA in the elementary education major and licensure area(s) are

required at the end of each semester for continued eligibility in the program.

Students seeking an additional major or minor should see requirements for the area of interest.

### Major Requirements—Program Year One

- ELED 3101—Teaching and Learning Strategies (3 cr)  
 ELED 3102—Reading Methods: Literacy and Language Instruction in the Elementary School (4 cr)  
 ELED 3103—Mathematics in the Elementary School (4 cr)  
 ELED 3111—Practicum I: Field Experience in the Elementary Classroom (1 cr)  
 ELED 3204—Advanced Childhood and Adolescent Development (2 cr)

### Practicum II: Field Experience

- ELED 3211—Practicum II: Field Experience in a Preprimary Setting (1 cr)  
 or ELED 3212—Practicum II: Field Experience in a Middle Level Setting (1 cr)  
 or ELED 3213—Practicum II: Field Experience in a K-6 Setting (1 cr)

### Major Requirements—Program Year Two

- ED 4121—Strategies for Inclusive Schooling (2 cr)  
 ED 4901—The Teacher and Professional Development (1 cr)  
 ELED 4102—Social Studies in the Elementary School (2 cr)  
 ELED 4103—Science in the Elementary School (2 cr)  
 ELED 4104—Language Arts and Literature in the Elementary School (3 cr)  
 ELED 4107—Health and Physical Education in the Elementary School (1 cr)  
 ELED 4111—Practicum III: Beginning Student Teaching (2 cr)  
 ELED 4112—Practicum IV: Cross-Cultural Experience in the Elementary School (1 cr)

### Student Teaching Requirements

1. Passing scores on MTLE Basic Skills or faculty approved remediation plan.
2. Approval of elementary education faculty.
3. Minimum GPA of 2.50 overall with 2.75 minimum GPA in EIED major and licensure area(s).

### Directed Student Teaching:

- ELED 4201—Directed Student Teaching in Primary and Intermediate Grades [HDIV] (12 cr)  
 or ELED 4204—Directed Student Teaching in International School at the Primary and Intermediate Level [IP] (12 cr)

### Program Sub-plans

A sub-plan is not required for this program.

### Elementary Education Minnesota Licensure Requirements

Students planning to teach in Minnesota elementary schools must meet the licensure requirements of the Minnesota Board of Teaching (BOT). The following program is designed to meet these requirements which are subject to change when the BOT implements new licensure rules.

**Note:** Students must complete licensure requirements and apply for licensure within seven years from time of admission to the program. After seven years, all education courses previously taken are void and must be retaken.

#### 1. EIED Major Requirement

All requirements for an elementary education major must be complete in order to be licensed.

#### 2. Communication Arts and Literature

Students must also complete the general education requirements for writing and foreign language.  
 Engl 3021 is recommended. In the listing below, 2xxx is equivalent to 2xxx or above.  
 ENGL 2xxx  
 or ENGL 3021—Grammar and Language [HUM] (4 cr)  
 CMR 1052—Introduction to Public Speaking [E/CR] (2 cr)  
 or CMR 1042—Public Speaking and Analysis [E/CR] (4 cr)

#### 3. Mathematics and Statistics

MATH 1001—Excursions in Mathematics [M/SR] (4 cr)  
 STAT 1601—Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601—Statistical Methods [M/SR] (4 cr)  
 or STAT 2611—Mathematical Statistics [M/SR] (4 cr)

#### 4. Visual and Performing Arts

Students must complete two courses from two different disciplines. In the listings below, 1xxx is equivalent to 1xxx or above.  
*Take 2 or more courses including 2 or more sub-requirements from the following:*  
 ARTH 1101—Principles of Art [FA] (4 cr)  
 or ARTH 1xxx  
 or ARTS 1050—Beginning Ceramics [ART/P] (3 cr)  
 or ARTS 1xxx  
 DNCE 1xxx  
 MUS 1041—Introduction to Music [FA] (4 cr)  
 or MUS 1042—Fundamentals of Music [FA] (4 cr)  
 or MUS 1xxx  
 TH 1101—The Theatre Experience: An Introduction [FA] (4 cr)  
 or TH 1xxx  
 or TH 2111—Creative Drama with Children [ART/P] (4 cr)

#### 5. Social Studies

Students must complete two courses from two different disciplines. In the listings below, 1xxx is equivalent to 1xxx or above.  
*Take 2 or more courses including 2 or more sub-requirements from the following:*

##### Sub-requirement 1: Anthropology

ANTH 1111—Introductory Cultural Anthropology [SS] (4 cr)  
 or ANTH 1xxx

##### Sub-requirement 2: Economics

ECON 1111—Principles of Microeconomics [SS] (4 cr)  
 or ECON 1112—Principles of Macroeconomics [SS] (4 cr)  
 or ECON 1xxx

##### Sub-requirement 3: Geography

GEOG 1xxx  
 or GEOG 2001—Problems in Geography [ENVT] (4 cr)

##### Sub-requirement 4: History

HIST 1301—Introduction to U.S. History [HIST] (4 cr)  
 or HIST 1xxx

##### Sub-requirement 5: Political Science

POL 1201—American Government and Politics [E/CR] (4 cr)  
 or POL 1xxx

##### Sub-requirement 6: Sociology

SOC 1101—Introductory Sociology [SS] (4 cr)  
 or SOC 1xxx  
 or SOC 3122—Sociology of Childhoods [HDIV] (4 cr)

#### 6. Science

Students must complete two courses from two different disciplines, at least one with a lab (SCI-L).  
 In the listing below, 1xxx is equivalent to 1xxx or above  
*Take 2 or more courses including 2 or more sub-requirements from the following:*

##### Sub-requirement 1: Biology

BIOL 1xxx  
 or ENST 2101—Environmental Biology [SCI-L] (4 cr)

##### Sub-requirement 2: Chemistry

CHEM 1xxx

##### Sub-requirement 3: Geology

GEOL 1001—Environmental Geology: Geology in Daily Life [SCI] (4 cr)  
 or GEOL 1101—Physical Geology [SCI-L] (4 cr)  
 or GEOL 1xxx

##### Sub-requirement 4: Physics

PHYS 1052—The Solar System [SCI-L] (5 cr)  
 or PHYS 1xxx

#### 7. Psychology

PSY 2581—Drugs and Human Behavior [SS] (2 cr)

#### 8. Cross-Cultural Field Experience

Students must successfully complete a cross-cultural field experience.

**9. Additional Licensure Requirements****GPA requirements:**

- a) Minimum GPA of 2.50 overall with 2.75 minimum GPA in EIED major and licensure area(s).  
 b) No grade below C—will be accepted. c) No courses may be taken S/N.

**MLTE Basic Skills:**

Passing scores on MTLE Basic Skills or faculty approved remediation plan.

**Discipline Approval:**

Approval of elementary education faculty.

**Preprimary Education Endorsement Sub-plan**

Students planning to complete this sub-plan must also complete the requirements for elementary K-6 licensure.

**1. Preprimary Education (age 3 to grade 3)**

Students planning to complete this sub-plan should take ELED 3211 in addition to the following courses:  
 ELED 3203—Preprimary Theory and Pedagogy (4 cr)  
 ELED 4206—Directed Student Teaching in Preprimary Classroom [HDIV] (4 cr)  
 SOC 1101—Introductory Sociology [SS] (4 cr)

**Additional Courses**

Take 3 or more courses from the following:

ED 4903—Kindergarten Education (4 cr)  
 PSY 3112—Cognition (4 cr)  
 PSY 3302—Personality (4 cr)  
 PSY 3315—Parenting and Family Therapy (4 cr)  
 PSY 3401—Developmental Psychology I: Child Psychology (4 cr)  
 PSY 3404—Culture and Human Development [HDIV] (4 cr)  
 PSY 3501—Social Psychology (4 cr)  
 SOC 3122—Sociology of Childhoods [HDIV] (4 cr)  
 TH 2111—Creative Drama with Children [ART/P] (4 cr)

**Middle Level Education Endorsement—Communication Arts & Literature Sub-plan**

Students planning to complete this sub-plan must also complete the requirements for elementary K-6 licensure.

**2. Middle Level Comm. Arts & Lit. (grades 5-8)**

In addition to the required courses listed below, a minor in English is strongly recommended. Students planning to complete this sub-plan should take EIED 3212 in addition to the following courses:  
 ENGL 2501—Literary Studies [HUM] (4 cr)  
 ENGE 4121—Methods of Teaching Communication Arts and Literature in the Middle and Secondary School (4 cr)  
 ELED 3202—Middle Level Theory and Methods (1 cr)  
 ELED 4207—Directed Student Teaching in Middle Level Classroom [HDIV] (4 cr)  
 CMR 1042—Public Speaking and Analysis [E/CR] (4 cr)  
 or CMR 1052—Introduction to Public Speaking [E/CR] (2 cr)

**Additional Courses**

Engl 3021 is recommended. In the listing below, 2xxx is equivalent to 2xxx or above.

Take 3 or more courses from the following:

ED 2201—Perspectives on Young Adult Literature: Schooling, Society, and Culture [HUM] (4 cr)  
 ENGL 2xxx  
 ENGL 3021—Grammar and Language [HUM] (4 cr)

**Middle Level Education Endorsement—Mathematics Sub-plan**

Students planning to complete this sub-plan must also complete the requirements for elementary K-6 licensure.

**3. Middle Level Mathematics (grades 5-8)**

In addition to the required courses listed below, a minor in mathematics is strongly recommended. Students planning to complete this sub-plan should take EIED 3212 in addition to the following courses:  
 MTHE 4121—Methods of Teaching Mathematics in the Middle and Secondary School (4 cr)  
 MATH 1101—Calculus I [M/SR] (5 cr)

MATH 1102—Calculus II [M/SR] (5 cr)  
 ELED 3202—Middle Level Theory and Methods (1 cr)  
 ELED 4207—Directed Student Teaching in Middle Level Classroom [HDIV] (4 cr)  
 STAT 1601—Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601—Statistical Methods [M/SR] (4 cr)  
 or STAT 2611—Mathematical Statistics [M/SR] (4 cr)

**Additional Courses**

Math 2111 is recommended. In the listing below, 2xxx is equivalent to 2xxx or above.

Take 2 or more courses from the following:

MATH 2111—Linear Algebra [M/SR] (4 cr)  
 MATH 2xxx

**Middle Level Education Endorsement—Social Studies Sub-plan**

Students planning to complete this sub-plan must also complete the requirements for elementary K-6 licensure.

**4. Middle Level Social Studies (grades 5-8)**

In addition to the required courses listed below, a minor in anthropology, economics, history, political science, or sociology is strongly recommended. Students planning to complete this sub-plan should take EIED 3212 in addition to the following courses:  
 SSCE 4121—Methods of Teaching Social Science in the Middle and Secondary School (4 cr)  
 ELED 3202—Middle Level Theory and Methods (1 cr)  
 ELED 4207—Directed Student Teaching in Middle Level Classroom [HDIV] (4 cr)  
 ECON 1112—Principles of Macroeconomics [SS] (4 cr)  
 HIST 1301—Introduction to U.S. History [HIST] (4 cr)  
 POL 1201—American Government and Politics [E/CR] (4 cr)  
 or POL 1xxx or above  
 ANTH 1111—Introductory Cultural Anthropology [SS] (4 cr)  
 or SOC 1101—Introductory Sociology [SS] (4 cr)

**Additional Courses**

Geog 2001 is recommended. In the listing below, 1xxx is equivalent to 1xxx or above.

Take 1 or more courses from the following:

ANTH 1xxx  
 ECON 1xxx  
 HIST 1xxx  
 POL 1xxx  
 SOC 1xxx  
 GEOG 2001—Problems in Geography [ENVT] (4 cr)

**Middle Level Education Endorsement—Science Sub-plan**

Students planning to complete this sub-plan must also complete the requirements for elementary K-6 licensure.

**5. Middle Level Science (grades 5-8)**

Students planning to complete this sub-plan should take ELED 3212 in addition to the following courses:  
 BIOL 1111—Fundamentals of Genetics, Evolution, and Development [SCI] (3 cr)  
 BIOL 2101—Evolution of Biodiversity [SCI-L] (4 cr)  
 CHEM 1101—General Chemistry I [SCI-L] (5 cr)  
 ELED 3202—Middle Level Theory and Methods (1 cr)  
 ELED 4207—Directed Student Teaching in Middle Level Classroom [HDIV] (4 cr)  
 GEOL 1101—Physical Geology [SCI-L] (4 cr)  
 SCIE 4121—Methods of Teaching Science in the Middle and Secondary School (4 cr)  
 PHYS 1052—The Solar System [SCI-L] (5 cr)  
 PHYS 1091—Principles of Physics I [SCI-L] (5 cr)  
 PHYS 1092—Principles of Physics II [SCI-L] (5 cr)  
 or PHYS 1101—General Physics I [SCI-L] (5 cr)  
 PHYS 1102—General Physics II [SCI-L] (5 cr)

## Elementary Education Course Descriptions

**ELED 3101. Teaching and Learning Strategies.** (3 cr; A-F only; prereq admission to the elementary teacher education program; fall, every year) Elementary school teaching and learning. Planning for instruction, learning theory, multicultural education, classroom management, use of technology in the classroom.

**ELED 3102. Reading Methods: Literacy and Language Instruction in the Elementary School.** (4 cr; A-F only; prereq admission to elementary teacher education program; fall, every year) Beginning and advanced reading instruction in the elementary grades. Includes study of theory, issues, literacy frameworks, assessment, materials, organization, and instructional strategies to scaffold children's literacy development.

**ELED 3103. Mathematics in the Elementary School.** (4 cr; A-F only; prereq admission to the elementary teacher education program; fall, every year) Standards, curriculum, assessment, and methodology for teaching mathematics in the elementary school. Includes the theoretical basis of methodology in mathematics and its application, measurement and evaluation, selection and use of instructional media and computer software, and meeting the needs of culturally diverse and special needs students.

**ELED 3111. Practicum I: Field Experience in the Elementary Classroom.** (1 cr; S-N only; prereq admission to the elementary teacher education program; fall, every year) Field experience in the elementary classroom.

**ELED 3202. Middle Level Theory and Methods.** (1 cr; A-F only; prereq 3101, 3102, 3103, 3111; spring, every year) Developmental characteristics, organizational and instructional needs of pre-adolescent and adolescent level classrooms. Characteristics of effective middle level teachers.

**ELED 3203. Preprimary Theory and Pedagogy.** (4 cr; A-F only; prereq 3101, 3102, 3103, 3111; spring, every year) The theoretical foundations of young children's development, historical foundations of early childhood education, interaction with families. Explore the methods, materials, and research for planning and implementing a developmentally appropriate curriculum, assessments, and learning environments for children from ages 3-5. Required for students pursuing a preprimary endorsement. A 40-hour practicum experience (EIED 3211) must be taken concurrently.

**ELED 3204. Advanced Childhood and Adolescent Development.** (2 cr; A-F only; prereq 3101, 3102, 3103, 3111; spring, every year) Extended study of child and adolescent development with a particular focus on teaching and learning for early elementary and middle school learners. This is a required course for students majoring in elementary education.

**ELED 3211. Practicum II: Field Experience in a Preprimary Setting.** (1 cr; S-N only; prereq 3101, 3102, 3103, 3111; spring, every year) Field experience in preprimary or kindergarten setting.

**ELED 3212. Practicum II: Field Experience in a Middle Level Setting.** (1 cr; S-N only; prereq 3101, 3102, 3103, 3111; spring, every year) Field experience in the middle level classroom.

**ELED 3213. Practicum II: Field Experience in a K-6 Setting.** (1 cr; S-N only; prereq 3101, 3102, 3103, 3111; spring, every year) Field experience in a K-6 classroom.

**ELED 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ELED 4102. Social Studies in the Elementary School.** (2 cr; A-F only; prereq 3201, 3202, (3211 or 3212); fall, every year) Outcomes, content, integration strategies, and assessment of social studies instruction in the elementary curriculum.

**ELED 4103. Science in the Elementary School.** (2 cr; A-F only; prereq 3201, 3202, (3211 or 3212); fall, every year) Standards, curriculum, and assessment of elementary school science. Includes theoretical basis of methodology and its application, assessment, selection and use of instructional media and computer software, and meeting the needs of cultural diverse and special needs students.

**ELED 4104. Language Arts and Literature in the Elementary School.** (3 cr; A-F only; prereq 3201, 3202, (3211 or 3212); fall, every year) Theory, content, assessment, and strategies that support identification, selection, and use of materials and practices in the language arts and children's literature that foster children's language development and growth in reading, writing, speaking, listening, viewing, and visually representing.

**ELED 4107. Health and Physical Education in the Elementary School.** (1 cr; A-F only; prereq 3201, 3202, (3211 or 3212); fall, every year) Scope, sequence, and related activities in elementary health and physical education.

**ELED 4111. Practicum III: Beginning Student Teaching.** (2 cr; S-N only; prereq 3201, 3202, (3211 or 3212); fall, every year) Participation in in-service, teaching, and teaching-related activities in preparation for student teaching.

**ELED 4112. Practicum IV: Cross-Cultural Experience in the Elementary School.** (1 cr [max 2 cr]; S-N only; prereq 3201, 3202, (3211 or 3212); special fee required if practicum is in Chicago; fall, every year) Field experience in the elementary classroom.

**ELED 4201. Directed Student Teaching in Primary and Intermediate Grades.** (HDIV; 12 cr; S-N only; prereq 4102, 4103, 4104, 4111, 4112, passing scores on MTLE Basic Skills or #; special fee required; spring, every year) Students teach for a period of 10 to 12 weeks demonstrating application of approaches to teaching and learning in primary and intermediate grades under the guidance of a cooperating teacher and University supervisor.

**ELED 4202. Directed Student Teaching in Primary and Intermediate Grades.** (1-16 cr; S-N only; prereq passing scores on MTLE Basic Skills or #; special fee required; fall, spring, every year) For students who need alternative or additional student teaching experience. Students demonstrate application of approaches to teaching and learning in primary and intermediate grades under guidance of a cooperating teacher and University supervisor.

**ELED 4204. Directed Student Teaching in International School at the Primary and Intermediate Level.** (IP; 12 cr; S-N only; prereq 4102, 4103, 4104, 4111, 4112, passing scores on MTLE Basic Skills or #; special fee required; spring, every year) Students teach for a period of 10 to 12 weeks demonstrating application of approaches to teaching and learning in primary and intermediate grades under the guidance of a cooperating teacher and University supervisor.

**ELED 4205. Directed Student Teaching in the Elementary School.** (1-16 cr; A-F only; prereq passing scores on MTLE basic skills or #; special fee required; fall, spring, summer, every year) For students from colleges that require A-F grading for student teaching through the Global Student Teaching Program.

**ELED 4206. Directed Student Teaching in Preprimary Classroom.** (HDIV; 4 cr; S-N only; prereq 3201, 3203, 3211, passing scores on MTLE basic skills or #; special fee required; spring, every year) Students teach for a period of 4 weeks demonstrating application of approaches to teaching and learning in preprimary grades under the guidance of a cooperating teacher and University supervisor.

**ELED 4207. Directed Student Teaching in Middle Level Classroom.** (HDIV; 4 cr; S-N only; prereq 3202, 3212, appropriate methods course, passing scores on MTLE basic skills or #; special fee required; spring, every year) Students teach for a period of 4 weeks demonstrating application of approaches to teaching and learning in middle level grades under the guidance of a cooperating teacher and University supervisor.

**ELED 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Education, Secondary (SEED)

### Division of Education

This discipline is in the Division of Education. A separate admissions process must be completed and admission granted before students can enroll in this program.

The secondary education program leads to Minnesota licensure as a teacher in specified liberal arts disciplines.

**Objectives**—Coursework in secondary education is designed to meet standards of effective practice required for licensure and provide prospective teachers with opportunities to do the following:

- \* understand central concepts, tools of inquiry, and structures of disciplines taught in the middle and secondary school;
- \* understand adolescent development theory, individual and group motivation, and diversity among learners;
- \* create instructional opportunities adapted to learners from diverse cultural backgrounds, and with exceptionalities, use instructional strategies that reflect personal knowledge of effective verbal and nonverbal communication techniques;
- \* encourage development of critical thinking, problem solving, and performance skills;
- \* understand and use formal and informal methods of student assessment;
- \* plan and manage instruction;
- \* engage in reflection and self-assessment; and
- \* collaborate with parents/guardians, families, school colleagues, and the community in an ethical manner.

To obtain a teaching license, an individual must have completed a major, a bachelor's degree, and licensure requirements in the area(s) in which licensure is sought. UMM is approved to recommend teaching licensure in the following fields: chemistry (9-12), communication arts and literature (5-12), earth and space science (9-12), French (K-12), general science (5-8), instrumental music (K-12), life science (9-12), mathematics (5-12), physics (9-12), social studies (5-12), Spanish (K-12), visual arts (K-12), and vocal music (K-12).

Coursework required for licensure, in most cases, is not equivalent to a major. Consult an adviser in the discipline to determine major requirements.

Students planning to seek Minnesota teaching licensure at the secondary school level must complete licensure requirements in the discipline(s) of the subject(s) they intend to teach, the secondary teacher education program, and state and federally mandated examinations for new teachers. A minimum GPA of 2.75 is required in licensure area(s) and in education prerequisite courses. A minimum GPA of 2.50 is required overall. The GPA includes all course work. Grades of "F" are included in GPA calculation until they are replaced. All courses required for teaching licensure in secondary education (discipline, professional education, or other courses) must be completed with a grade of C–or better. Required courses must be taken A-F, unless they are offered S-N only.

### Admission

Students must complete 90 credits before admission to the program.

A GPA above 2 is preferred for the following:

- 2.75 already admitted to the degree-granting college
- 2.75 transferring from another University of Minnesota college
- 2.75 transferring from outside the University

For admission to the one-year program which begins each fall, students must apply in the fall of the preceding year. Admissions decisions are made in early spring.

Transfer students must be admitted to UMM before admission to the secondary program can be offered. Transfer students should seek academic planning advice from the secondary education faculty before application to the program.

### Requirements

1. Completion of the Minnesota Teacher Licensure Examinations: Basic Skills.
2. A minimum GPA of 2.75 is required in licensure area(s) and in education prerequisite courses and 2.50 overall. No grade below C–will be accepted in these courses.
3. Completion or near-completion of licensure courses in the content/licensure area(s) and demonstration of satisfactory progress in each licensure area.
4. Approval of the faculty based on an interview, recommendations, prior experiences with young people, and progress toward a degree.
5. Admission to UMM.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

### Courses Required for Admission

ED 2121–Introduction to Education [SS] (3 cr)

ED 2111–Tutor-Aide Practicum (1 cr)

### Child Development

Take the following course (or *Psy 1061*). *PSY 1051* is a prerequisite.

ED 2601–Development, Learning, and Teaching [SS] (4 cr)

or *PSY 3401–Developmental Psychology I: Child Psychology* (4 cr)

*PSY 3402–Developmental Psychology II: Adolescence and Emerging Adulthood* (4 cr)

### PSY 2581 and CMR 1052 or 1042

These are required for licensure and are recommended to be completed before beginning the program.

## Licensure Area Requirements

### Student Teaching Requirements

#### 1. Successful completion of:

SEED 4102–Teaching and Learning Strategies (2 cr)

SEED 4103–Practicum Experience in the Middle and Secondary School (4 cr)

SEED 4104–Teaching Diverse Learners [HDIV] (2 cr)

SEED 4105–Reading and Literacy in the Content Areas (2 cr)

ED 4121–Strategies for Inclusive Schooling (2 cr)

#### 2. SEED 4115–Advanced Content Reading

SEED 4115–Advanced Content Reading [HUM] (2 cr)

#### 3. Successful completion of licensure area methods courses.

ARTE 4123–Methods of Teaching Art K-12 (4 cr)

or ENGE 4121–Methods of Teaching Communication Arts and Literature in the Middle and Secondary School (4 cr)

or LANE 4123–Methods of Teaching Foreign Language K-12 (4 cr)

or MTHE 4121–Methods of Teaching Mathematics in the Middle and Secondary School (4 cr)

or MUSE 4123–Methods of Teaching Music K-12 (4 cr)

or SCIE 4121–Methods of Teaching Science in the Middle and Secondary School (4 cr)

or SSCE 4121–Methods of Teaching Social Science in the Middle and Secondary School (4 cr)

#### 4. Satisfactory completion of tutor-aide and practicum experiences.

#### 5. CMR 1052-Introduction to Public Speaking or CMR 1042-Public Speaking and Analysis.

CMR 1052–Introduction to Public Speaking [E/CR] (2 cr)

or CMR 1042–Public Speaking and Analysis.

#### 6. GPA and grade requirements

2.75 minimum GPA required in licensure area(s) and education prerequisite courses and 2.5 overall.

No grade below C–will be accepted.

#### 7. Passing scores on MTLE Basic Skills or faculty approved remediation plan

#### 8. Approval of SeEd faculty based on recommendations from faculty in the student's discipline.

## Middle and Secondary School Licensure Requirements

Students planning to teach at the secondary level must meet licensure requirements of the MN Board of Teaching, which change as new rules are adopted. Students must complete licensure requirements & apply for licensure within seven years of admission to the program. After seven years, all prior education courses are void & must be retaken. Coursework in the licensure area must also meet current requirements; therefore, some content courses may need to be retaken.

### 1. Professional education courses:

ED 2121-Introduction to Education and ED 2111-Tutor-Aide Practicum  
SEED 4102, 4103, 4104, 4105, 4115, and Ed 4121

### Student Teaching

SEED 4201-Directed Student Teaching in the Middle and Secondary School [HDIV] (12 cr)  
or SEED 4204-Directed Student Teaching in International School at the Middle and Secondary Level [IP] (12 cr)  
ED 4901-The Teacher and Professional Development (1 cr)

### 2. Successful completion of licensure area methods courses.

3. **ED 2601 Development, Learning & Teaching or PSY 1061**  
PSY 2581-Drugs and Human Behavior [SS] (2 cr)

4. **CMR 1052-Introduction to Public Speaking or CMR 1042-Public Speaking and Analysis.**

### 5. GPA and grade requirements

2.75 minimum GPA required in licensure area(s) and education prerequisite courses and 2.5 overall.  
No grade below C-will be accepted.

6. **Approval of SeEd faculty based on recommendations from faculty in the student's discipline.**

7. **Passing scores on MN Teacher Licensure Exam in Basic Skills, the licensure area(s), and pedagogy.**

## Program Sub-plans

Students are required to complete one of the following sub-plans. (Note: The honors sub-plan does not meet this requirement. Honors students are required to complete one sub-plan plus the honors sub-plan. Please see an adviser if no honors sub-plan is listed for the program.)

### Chemistry 9-12 Sub-plan

#### Required Courses for the Sub-plan

BIOL 1111 is a prerequisite course for BIOL 2111.  
CHEM 1101-General Chemistry I [SCI-L] (5 cr)  
CHEM 1102-General Chemistry II [SCI-L] (5 cr)  
CHEM 2301-Organic Chemistry I [SCI] (4 cr)  
CHEM 2311-Organic Chemistry Lab I (1 cr)  
CHEM 2321-Introduction to Research I (1 cr)  
CHEM 2322-Introduction to Research II (1 cr)  
CHEM 3101-Analytical Chemistry [SCI-L] (4 cr)  
CHEM 3501-Physical Chemistry I [SCI] (4 cr)  
BIOL 2111-Cell Biology [SCI-L] (4 cr)  
MATH 1101-Calculus I [M/SR] (5 cr)  
PHYS 1101-General Physics I [SCI-L] (5 cr)  
CHEM 2302-Organic Chemistry II [SCI] (4 cr)  
or CHEM 2304-Organic Chemistry II with a Biological Emphasis [SCI] (4 cr)

### Communication Arts & Literature 5-12 Sub-plan

#### Required Courses for the Sub-plan

CMR 1052-Introduction to Public Speaking [E/CR] (2 cr)  
CMR 1062-Introduction to Interpersonal and Group Communication [HUM] (4 cr)  
CMR 1101-Introduction to Theories of Communication, Media, and Rhetoric [HUM] (4 cr)  
CMR 4152-Advanced Public Speaking [HUM] (4 cr)  
ENGL 2501-Literary Studies [HUM] (4 cr)  
ENGL 3021-Grammar and Language [HUM] (4 cr)

ENGL 3005-Understanding Writing: Theories and Practices [HUM] (4 cr)  
or ENGL 3032-Creative Nonfiction Writing [ART/P] (4 cr)  
Study of Shakespeare (ENGL 3159-Shakespeare: Studies in the Bard or ENGL 2059-Introduction to Shakespeare strongly recommended, ENGL 2059 preferred)  
ENGL 3301-U.S. Multicultural Literature [HDIV] (4 cr)  
or ED 2201-Perspectives on Young Adult Literature: Schooling, Society, and Culture [HUM] (4 cr)  
TH 2211-Oral Interpretation [ART/P] (4 cr)  
or TH 2111-Creative Drama with Children [ART/P] (4 cr)  
or TH 2221-Readers' Theatre [ART/P] (4 cr)

### Earth and Space Science 9-12 Sub-Plan

Candidates pursuing this license must also earn the license in General Science 5-8 (see below).

#### Required Courses for the Sub-plan

GEOL 1001-Environmental Geology: Geology in Daily Life [SCI] (4 cr)  
GEOL 1101-Physical Geology [SCI-L] (4 cr)  
GEOL 2101-Mineralogy and Crystallography [SCI-L] (4 cr)  
GEOL 2111-Igneous and Metamorphic Petrology [SCI-L] (4 cr)  
GEOL 2121-Sedimentology and Stratigraphy [SCI-L] (4 cr)  
GEOL 2141-Glacial and Quaternary Geology [SCI] (4 cr)  
GEOL 2151-Historical Geology: Earth History and Changing Scientific Perspectives [SCI-L] (4 cr)  
GEOL 3101-Structural Geology [SCI-L] (4 cr)  
GEOL 4901-Geology Senior Seminar (1 cr)  
GEOL 4902-Geology Senior Seminar Presentations (1 cr)  
PHYS 1052-The Solar System [SCI-L] (5 cr)  
PHYS 1053-Introduction to Stars, Galaxies, and Cosmology [SCI] (4 cr)  
MATH 1101-Calculus I [M/SR] (5 cr)  
or MATH 1021-Survey of Calculus [M/SR] (4 cr)

### French K-12 Sub-plan

#### Required Courses for the Sub-plan

One cross-listed French course taught in English (such as Fren 1027, 1031, 1302, 1311, or 1312) may be counted towards the French licensure, provided that students complete written work for the class in French.  
FREN 2001-Intermediate French I [IP] (4 cr)  
FREN 2002-Intermediate French II [IP] (4 cr)  
FREN 3002-Civilization and Composition: From the Middle Ages to Classicism [HIST] (2 cr)  
FREN 3003-Civilization and Composition: France Since the Revolution of 1789 [HIST] (2 cr)  
FREN 3004-Civilization and Composition: Colonialism and Francophone Worlds [HIST] (2 cr)  
FREN 3011-Introduction to French and Francophone Literature [HUM] (4 cr)  
FREN 3112-Advanced Language Studies: Introduction to French Phonetics (2-4 cr)  
FREN 3113-Advanced Language Studies: Theme et Version (2-4 cr)  
or FREN 3114-Advanced Language Studies: Advanced French Grammar (2-4 cr)

#### Medieval Early Modern Studies (MEMS)

One course from Medieval and Early Modern Studies:  
FREN 3402-Medieval and Early Modern Studies: Pre-Enlightenment Culture in France (2-4 cr)  
or FREN 3406-Medieval and Early Modern Studies: Emotional Extremes in Medieval and Early Modern Literature (4 cr)  
or FREN 3407-Medieval and Early Modern Studies: The "East" and its Marvels (2-4 cr)  
or FREN 3408-Medieval and Early Modern Studies: Quests, Quails, and Custards--Food in Life and Literature (2-4 cr)  
or FREN 3409-Medieval and Early Modern Studies: Monsters and the Marvelous (2-4 cr)



**Modern Studies (MOS)**

One course from Modern Studies:

- FREN 1031—Modern Studies: The Modern Body in France [SS] (4 cr)  
 or FREN 1302—French Cinema [IP] (4 cr)  
 or FREN 1303—Paris as Text/Image/Sound [IP] (4 cr)  
 or FREN 3501—Modern Studies: The Old Regime and New Ideas: The French Enlightenment (4 cr)  
 or FREN 3502—Modern Studies: Revolution, Romanticism, Modernity (4 cr)  
 or FREN 3503—Modern Studies: Avant-Garde, Existentialism, Experimentation (2-4 cr)  
 or FREN 3505—Modern Studies: Immigration and Identity in Modern France (4 cr)

**Francophone Studies (FRS)**

One course from Francophone Studies:

- FREN 1311—Sub-Saharan Francophone Cinema [IP] (4 cr)  
 or FREN 1312—Morocco: History, Story, Myth [IP] (4 cr)  
 or FREN 3603—Francophone Studies: Contes francophones (2 cr)  
 or FREN 3604—Francophone Studies: L'Amérique francophone (4 cr)  
 or FREN 3605—Francophone Studies: Le Cinema du Maghreb (4 cr)  
 or FREN 3606—Francophone Studies: Sub-Saharan Francophone Cinema (4 cr)  
 or FREN 3607—Francophone Studies: Sex and Gender in Francophone Literature (2 cr)

Study abroad is strongly encouraged.

**General Science 5-8 Sub-plan****Required Courses for the Sub-plan**

- BIOL 1111 is a prerequisite course for BIOL 2101 and BIOL 2111.  
 BIOL 2101—Evolution of Biodiversity [SCI-L] (4 cr)  
 CHEM 1101—General Chemistry I [SCI-L] (5 cr)  
 GEOL 1101—Physical Geology [SCI-L] (4 cr)  
 PHYS 1052—The Solar System [SCI-L] (5 cr)

**PHYS 1091 or 1101**

- Prerequisite for PHYS 1101 is MATH 1101-Calculus I.  
 PHYS 1091—Principles of Physics I [SCI-L] (5 cr)  
 or PHYS 1101—General Physics I [SCI-L] (5 cr)

**PHYS 1092 or 1102**

- Prerequisite for PHYS 1102 is MATH 1102-Calculus II.  
 PHYS 1092—Principles of Physics II [SCI-L] (5 cr)  
 or PHYS 1102—General Physics II [SCI-L] (5 cr)

**Instrumental Music K-12 Sub-plan****Required Courses for the Sub-plan**

- MUS 1061—Introduction to World Music [IP] (4 cr)  
 MUS 1101—Core Studies I: Music Theory I [M/SR] (4 cr)  
 MUS 1102—Core Studies I: Music Theory II [M/SR] (4 cr)  
 MUS 1300—UMM Symphonic Winds [ART/P] (1 cr)  
 MUS 2101—Core Studies II: Music Theory III [FA] (4 cr)  
 MUS 2102—Core Studies II: Music Theory IV [FA] (4 cr)  
 MUS 2301—Instrumental Techniques—Woodwind (1 cr)  
 MUS 2302—Instrumental Techniques—Brass (1 cr)  
 MUS 2303—Instrumental Techniques—Strings (1 cr)  
 MUS 2304—Vocal Techniques (1 cr)  
 MUS 3101—Core Studies III: Medieval, Renaissance, and Baroque Music [HIST] (4 cr)  
 MUS 3102—Core Studies III: Classical, Romantic, and 20th-Century Music [FA] (4 cr)  
 MUS 3200-3223—Advanced Individual Performance Studies in wind, string, percussion, or keyboard (consult with music faculty to determine performance studies requirements)  
 MUS 3311—Conducting Techniques (2 cr)  
 MUS 3321—Instrumental Conducting and Materials (2 cr)  
 MUS 3353—Music Arranging and Orchestration (2 cr)  
 MUS 4901—Senior Project and Portfolio (1 cr)

**Concert Attendance**

Seven successful completions of MUS 1000-Concert Attendance

**Piano Proficiency**

Music theory courses (1101, 1102, 2101, 2102) are taken concurrently with piano lessons or functional keyboard for the Music Major, Mus 1111, 1112, 2111, 2112 until the piano proficiency test is passed.

**Instrument Repair Clinic**

Successful completion of the instrument repair clinic

**Life Science 9-12 Sub-plan****Required Courses for the Sub-plan**

- BIOL 1111—Fundamentals of Genetics, Evolution, and Development [SCI] (3 cr)  
 BIOL 2101—Evolution of Biodiversity [SCI-L] (4 cr)  
 BIOL 2111—Cell Biology [SCI-L] (4 cr)  
 BIOL 3121—Molecular Biology [SCI-L] (5 cr)  
 BIOL 3131—Ecology [SCI-L] (4 cr)  
 BIOL 3701—Biological Communication II (1 cr)  
 BIOL 4312—Genetics (4 cr)  
 BIOL 4901—Senior Seminar (1 cr)  
 CHEM 1101—General Chemistry I [SCI-L] (5 cr)  
 MATH 1021—Survey of Calculus [M/SR] (4 cr)  
 or MATH 1101—Calculus I [M/SR] (5 cr)  
 STAT 1601—Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601—Statistical Methods [M/SR] (4 cr)

**Mathematics 5-12 Sub-plan****Required Courses for the Sub-plan**

- MATH 1101—Calculus I [M/SR] (5 cr)  
 MATH 1102—Calculus II [M/SR] (5 cr)  
 MATH 2101—Calculus III [M/SR] (4 cr)  
 MATH 2111—Linear Algebra [M/SR] (4 cr)  
 MATH 2202—Mathematical Perspectives [M/SR] (4 cr)  
 MATH 2211—History of Mathematics (4 cr)  
 MATH 3211—Geometry [M/SR] (4 cr)  
 MATH 3231—Abstract Algebra I (4 cr)  
 MATH 3411—Discrete and Combinatorial Mathematics (4 cr)  
 STAT 2611—Mathematical Statistics [M/SR] (4 cr)

**Physics 9-12 Sub-plan****Required Courses for the Sub-plan**

- Also recommended (required for physics major): MATH 2101-Calculus III, MATH 2401-Differential Equations  
 MATH 1101—Calculus I [M/SR] (5 cr)  
 MATH 1102—Calculus II [M/SR] (5 cr)  
 PHYS 1101—General Physics I [SCI-L] (5 cr)  
 PHYS 1102—General Physics II [SCI-L] (5 cr)  
 PHYS 2101—Modern Physics [SCI-L] (4 cr)  
 PHYS 2201—Circuits and Electronic Devices [SCI-L] (4 cr)  
 PHYS 2401—Optics [SCI-L] (4 cr)  
 PHYS 3101—Classical Mechanics [SCI] (4 cr)  
 PHYS 3501—Statistical Physics [SCI] (4 cr)  
 PHYS 4101—Electromagnetism (4 cr)  
 PHYS 4201—Quantum Mechanics (4 cr)

**Research**

Other research experience (e.g., UROP, internship) can be substituted with discipline approval.

Take 1 or more sub-requirements(s) from the following:

**Senior Thesis**

- PHYS 4901—Senior Thesis I (1 cr)  
 PHYS 4902—Senior Thesis II (1 cr)

**Directed Research**

- PHYS 1993—Directed Study (1-5 cr)  
 or PHYS 2993—Directed Study (1-5 cr)  
 or PHYS 3993—Directed Study (1-5 cr)  
 or PHYS 4993—Directed Study (1-5 cr)

**Social Studies 5-12 Sub-plan**

(fulfills requirements for a social science major)

**Required Courses for the Sub-plan**

- ANTH 1111—Introductory Cultural Anthropology [SS] (4 cr)  
 ECON 1111—Principles of Microeconomics [SS] (4 cr)  
 ECON 1112—Principles of Macroeconomics [SS] (4 cr)  
 GEOG 2001—Problems in Geography [ENVT] (4 cr)

HIST 1111—Introduction to World History [HIST] (4 cr)  
 HIST 1301—Introduction to U.S. History [HIST] (4 cr)  
 POL 1201—American Government and Politics [E/CR] (4 cr)  
 PSY 1051—Introduction to Psychology [SS] (4 cr)  
 SOC 1101—Introductory Sociology [SS] (4 cr)  
 STAT 1601—Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601—Statistical Methods [M/SR] (4 cr)  
 or Equivalent proficiency in statistics approved by the divisional committee for the social science major.

#### Area of focus:

Students work closely with their advisers to plan a program that satisfies the required competencies in a chosen sub-plan and in the social science disciplines. The sub-plan most often is demonstrated by completing the minor in that discipline. Program plans must be on file with the Social Sciences Division Office by the completion of a student's junior year.

#### Anthropology Focus

##### Required Courses

ANTH 2101—Biological Anthropology [SCI-L] (5 cr)  
 ANTH 2103—Archaeology [SS] (4 cr)  
 ANTH 4411—Seminar in Anthropological Methodology [E/CR] (4 cr)

An additional 8 credits (exclusive of those used to complete required courses) in anthropology and sociology; 4 of which must be in courses above 1xxx. No more than 4 credits can be from SOC courses.

Take at most 4 credits from the following:

ANTH 1xxx  
 SOC 1xxx

Take 4 or more credits from the following:

##### Anthropology Electives

Take 4 or more credits from the following:

- ANTH 3204—Culture, Food, and Agriculture [ENVT] (4 cr)
- ANTH 3206—Ecological Anthropology [ENVT] (4 cr)
- ANTH 3455—North American Archaeology (4 cr)
- ANTH 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)
- ANTH 3602—Women in Latin America [IP] (4 cr)
- ANTH 3603—Latin American Archaeology (4 cr)
- ANTH 3701—Forensic Anthropology [SCI-L] (4 cr)
- ANTH 2xxx, 3xxx, 4xxx

##### Sociology Electives

Take at most 4 credits from the following:

- SOC 2101—Systems of Oppression [HDIV] (4 cr)
- SOC 3103—Research Methodology in Sociology (4 cr)
- SOC 3111—Sociology of Modernization [IP] (4 cr)
- SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)
- SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)
- SOC 3122—Sociology of Childhoods [HDIV] (4 cr)
- SOC 3123—Sociology of Aging [HDIV] (4 cr)
- SOC 3124—Sociology of Law (4 cr)
- SOC 3131—World Population [ENVT] (4 cr)
- SOC 3141—Sociology of Deviance [E/CR] (4 cr)
- SOC 3204—Culture, Food, and Agriculture [ENVT] (4 cr)
- SOC 3251—African Americans [HDIV] (4 cr)
- SOC 3252—Women in Muslim Society [IP] (4 cr)
- SOC 3403—Sociological Theory (4 cr)
- SOC 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)
- SOC 3602—Women in Latin America [IP] (4 cr)
- SOC 2xxx, 3xxx, 4xxx

—or—

#### Economics Focus

##### Required Courses

ECON 3201—Microeconomic Theory [SS] (4 cr)  
 ECON 3202—Macroeconomic Theory [SS] (4 cr)  
 MATH 1101—Calculus I [M/SR] (5 cr)

No more than 4 cr from each of the following can be applied to the sub-plan: ECON x993, ECON 4501

Take 6 or more credits from the following:

- ECON 3005—Experimental and Behavioral Economics I [SS] (2 cr)
- ECON 3006—Experimental and Behavioral Economics II [SS] (2 cr)
- ECON 3007—Environmental and Natural Resource Economics I [ENVT] (2 cr)
- ECON 3008—Environmental and Natural Resource Economics II [ENVT] (2 cr)
- ECON 3009—Political Economy [SS] (4 cr)
- ECON 3014—Game Theory: The Theory of Strategic Behavior I [SS] (2 cr)
- ECON 3015—Game Theory: The Theory of Strategic Behavior II [SS] (2 cr)
- ECON 3113—Money, Banking, and Financial Markets [SS] (4 cr)
- ECON 3121—Public Economics I [SS] (2 cr)
- ECON 3122—Public Economics II [SS] (2 cr)
- ECON 3131—Comparative Economic Systems [IP] (2 cr)
- ECON 3133—Economics of China [IP] (2 cr)
- ECON 3134—Cooperative Business Model [SS] (2 cr)
- ECON 3141—Economic Development and Growth I [IP] (2 cr)
- ECON 3142—Economic Development and Growth II [IP] (2 cr)
- ECON 3153—Contemporary Global Economic Issues [IP] (2 cr)
- ECON 3211—History of Economic Thought I [HIST] (2 cr)
- ECON 3212—History of Economic Thought II [HIST] (2 cr)
- ECON 3351—Globalization: Examining India's Social and Economic Development [IP] (4 cr)
- ECON 3501—Introduction to Econometrics [M/SR] (4 cr)
- ECON 3993—Directed Study (1-5 cr)
- ECON 4101—Labor Economics I [HDIV] (2 cr)
- ECON 4102—Labor Economics II (2 cr)
- ECON 4111—Mathematical Economics I (2 cr)
- ECON 4112—Mathematical Economics II (2 cr)
- ECON 4121—International Trade Theory (2 cr)
- ECON 4131—International Finance (2 cr)
- ECON 4501—Senior Research Seminar in Economics and Management (2 cr)
- ECON 4993—Directed Study (1-5 cr)
- ECON 3xxx, 4xxx

—or—

#### History Focus

##### Required Courses

An additional 16 credits in history of which 12 credits are at 2xxx or above. There should be course work in at least two geographic areas, with at least one of these in a non-Western area.

Take at most 4 credits from the following:

- HIST 1402—Gender, Women, and Sexuality in American History [HDIV] (4 cr)
- HIST 1501—Introduction to East Asian History: China, Japan, and Korea before 1800. [HIST] (4 cr)
- HIST 1601—Latin American History: A Basic Introduction [IP] (4 cr)
- HIST 1xxx

Take 12 or more credits from the following:

- HIST 2103—Medieval Europe [HIST] (4 cr)
- HIST 2151—Modern Europe [HIST] (4 cr)
- HIST 2251—American Indians and the United States: A History [HDIV] (4 cr)
- HIST 2352—The U.S. 1960s [HIST] (4 cr)
- HIST 2452—Minnesota History [HIST] (4 cr)
- HIST 2551—Modern Japan [HIST] (4 cr)
- HIST 2552—History of Modern China [HIST] (4 cr)
- HIST 2704—Gender, Women, and Sexuality in Medieval Europe [SS] (4 cr)
- HIST 2708—Gender, Women, and Sexuality in Modern Europe [IP] (4 cr)
- HIST 3008—The Making of the Islamic World [HDIV] (4 cr)
- HIST 3101—Renaissance and Reformation [HIST] (4 cr)
- HIST 3102—Early Modern Europe [HIST] (4 cr)

- HIST 3161—The Enlightenment [HIST] (4 cr)
- HIST 3181—The Study of History: Schools, Rules, and Tools [HIST] (4 cr)
- HIST 3204—Nazi Germany [HIST] (4 cr)
- HIST 3207—The Crusades [IP] (4 cr)
- HIST 3209—Modern Germany [HIST] (4 cr)
- HIST 3211—Modern France [HIST] (4 cr)
- HIST 3303—Creation of the American Republic [HIST] (4 cr)
- HIST 3351—The U.S. Presidency Since 1900 [SS] (4 cr)
- HIST 3353—World War II [HIST] (4 cr)
- HIST 3355—United States in Transition, 1877-1920 [HIST] (4 cr)
- HIST 3356—Civil Rights Movement, 1954-1974 [HIST] (4 cr)
- HIST 3358—Civil War and Reconstruction [HIST] (4 cr)
- HIST 3359—Native Strategies for Survival, 1880-1920 [HDIV] (4 cr)
- HIST 3361—An Environmental and Geographic History of the United States [ENVT] (4 cr)
- HIST 3453—The American Presidency, 1789-1900 [HIST] (4 cr)
- HIST 3455—American Immigration [HIST] (4 cr)
- HIST 3456—History of Religion in America [HIST] (4 cr)
- HIST 3601—Great Books in Latin American History [IP] (4 cr)
- HIST 3993—Directed Study (1-5 cr)
- HIST 4993—Directed Study (1-5 cr)
- HIST 2xxx, 3xxx, 4xxx

—or—

#### Political Science Focus

##### Required Courses

An additional 16 credits (exclusive of those used to complete required courses); 8 of which must be in courses above 2xxx.

*Take at most 8 credits from the following:*

- POL 1101—Introduction to Political Theory [E/CR] (4 cr)
- POL 1202—Law and Society: Introduction to Public Law [SS] (4 cr)
- POL 1401—World Politics [IP] (4 cr)
- POL 2221—The American Judicial Process [SS] (2 cr)
- POL 2222—The U.S. Supreme Court [SS] (2 cr)
- POL 2234—Race, Class and Power: Social Movements in U.S. Politics [HDIV] (2 cr)
- POL 2235—Race, Class and Power: Interest Groups in U.S. Politics [HDIV] (2 cr)
- POL 2261—States: Laboratories of American Democracy [E/CR] (2 cr)
- POL 2262—Power and Politics in American Cities and Communities [E/CR] (2 cr)
- POL 2301—Anarchy and Utopia [HUM] (2 cr)
- POL 2302—Gandhi and the Politics of Resistance [SS] (2 cr)
- POL 2354—Political Ethics [E/CR] (4 cr)
- POL 2401—U.S. Foreign Policy [IP] (4 cr)
- POL 2411—The United Nations: Simulated Negotiations [IP] (2 cr)
- POL 2461—Diplomatic Negotiation [IP] (4 cr)
- POL 2501—East Asian Society and Politics [SS] (4 cr)
- POL 1xxx, 2xxx

*Take 8 or more credits from the following:*

- POL 3201—Legislative Process [SS] (4 cr)
- POL 3211—The American Presidency [SS] (4 cr)
- POL 3231—Constitutional Law: Civil Liberties and Civil Rights [HDIV] (4 cr)
- POL 3232—Constitutional Law: Governmental Powers and Constraints [SS] (4 cr)
- POL 3251—Political Participation and Voting Behavior [SS] (4 cr)
- POL 3263—Political Psychology [SS] (4 cr)
- POL 3266—Media and Politics [SS] (4 cr)
- POL 3272—Making Environmental Public Policy [ENVT] (4 cr)
- POL 3302—Islamic Political Thought [SS] (2 cr)
- POL 3303—Feminist Political Theory [SS] (2 cr)
- POL 3351—Ancient and Medieval Political Thought [HUM] (4 cr)
- POL 3352—Modern Political Thought [HUM] (4 cr)

- POL 3355—Environmental Political Theory [ENVT] (4 cr)
- POL 3411—International Law [E/CR] (4 cr)
- POL 3451—Comparative Foreign Policy (4 cr)
- POL 3453—Russian Politics and Foreign Policy [IP] (4 cr)
- POL 3475—International Human Rights (4 cr)
- POL 3504—Latin American Politics (4 cr)
- POL 3514—Pyramids and Politics on the Nile [IP] (4 cr)
- POL 3996—Field Study in Political Science (1-16 cr)
- POL 3xxx, 4xxx

—or—

#### Psychology Focus

##### Required Courses

In addition to PSY 2001, students must complete at least one course from four of the five areas. One must be a designated lab course.

PSY 2001—Research Methods in Psychology [SS] (4 cr)

##### Learning and Cognition

*Take 0 or more courses from the following:*

- PSY 3101—Learning Theory and Behavior Modification (4 cr)
- PSY 3111—Sensation and Perception (4 cr)
- PSY 3112—Cognition (4 cr)

##### Biological and Comparative Psychology

*Take 0 or more courses from the following:*

- PSY 3201—Comparative Psychology [SCI-L] (4 cr)
- PSY 3211—Biological Psychology [SCI-L] (5 cr)
- PSY 3221—Behavioral Biology of Women [SCI] (4 cr)
- PSY 3521—Health Psychology (4 cr)

##### Personality and Clinical Psychology

*Take 0 or more courses from the following:*

- PSY 3302—Personality (4 cr)
- PSY 3313—Psychopathology (4 cr)
- PSY 4101—Helping Relationships (4 cr)
- PSY 4301—Clinical Assessment and Therapeutic Interventions (4 cr)

##### Developmental Psychology

*Take 0 or more courses from the following:*

- PSY 2411—Introduction to Lifespan Developmental Psychology [SS] (4 cr)
- PSY 3051—The Psychology of Women and Gender [HDIV] (4 cr)
- PSY 3401—Developmental Psychology I: Child Psychology (4 cr)
- PSY 3402—Developmental Psychology II: Adolescence and Emerging Adulthood (4 cr)
- PSY 3403—Developmental Psychology III: Adulthood and Aging [E/CR] (4 cr)
- PSY 3404—Culture and Human Development [HDIV] (4 cr)

##### Social and Applied Psychology

*Take 0 or more courses from the following:*

- PSY 3501—Social Psychology (4 cr)
- PSY 3502—Psychology and Law (4 cr)
- PSY 3503—Consumer Behavior [SS] (4 cr)
- PSY 3504—Educational Psychology (4 cr)
- PSY 3513—Negotiation (4 cr)
- PSY 3542—Multicultural Psychology [HDIV] (4 cr)
- PSY 3701—Organizational Behavior [SS] (4 cr)

Additional elective credits to total at least 22 credits in the psychology sub-plan (including required courses). Electives may be selected from any category above and the following:

*Take 0 or more courses from the following:*

- IS 3800—Practicum in Social Sciences (1-2 cr)
- POL 3263—Political Psychology [SS] (4 cr)
- PSY 2993—Directed Study (1-5 cr)
- PSY 3315—Parenting and Family Therapy (4 cr)
- PSY 3611—History and Philosophy of Psychology [HIST] (4 cr)
- PSY 3800—Research Practicum (1-12 cr)
- PSY 3993—Directed Study (1-5 cr)
- PSY 4102—Intro to Prof Conduct, Legal Constraints, Ethics in Human Services [E/CR] (2 cr)
- PSY 4770—Empirical Investigations in Psychology (4 cr)

- PSY 4896—Field Experiences in Psychology (1-4 cr)
- PSY 4993—Directed Study (1-5 cr)
- STAT 3601—Data Analysis [M/SR] (4 cr)
- STAT 3611—Multivariate Statistical Analysis [M/SR] (4 cr)

—or —

### Sociology Focus

#### Required Courses

- SOC 3103—Research Methodology in Sociology (4 cr)
- SOC 3403—Sociological Theory (4 cr)

No more than 4 credits of the 12 elective credits required for the sub-plan can be from ANTH courses. SOC 4991 is strongly recommended.

*Take at most 4 credits from the following:*

- ANTH 2101—Biological Anthropology [SCI-L] (5 cr)
- ANTH 2103—Archaeology [SS] (4 cr)
- ANTH 3204—Culture, Food, and Agriculture [ENVT] (4 cr)
- ANTH 3206—Ecological Anthropology [ENVT] (4 cr)
- ANTH 4411—Seminar in Anthropological Methodology [E/CR] (4 cr)
- ANTH 3455—North American Archaeology (4 cr)
- ANTH 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)
- ANTH 3602—Women in Latin America [IP] (4 cr)
- ANTH 3603—Latin American Archaeology (4 cr)
- ANTH 3701—Forensic Anthropology [SCI-L] (4 cr)
- ANTH 4901—Seminar in Anthropological Theory (4 cr)
- ANTH 2xxx, 3xxx, 4xxx

*Take 8 or more credits from the following:*

- SOC 2101—Systems of Oppression [HDIV] (4 cr)
- SOC 3111—Sociology of Modernization [IP] (4 cr)
- SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)
- SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)
- SOC 3122—Sociology of Childhoods [HDIV] (4 cr)
- SOC 3123—Sociology of Aging [HDIV] (4 cr)
- SOC 3124—Sociology of Law (4 cr)
- SOC 3131—World Population [ENVT] (4 cr)
- SOC 3141—Sociology of Deviance [E/CR] (4 cr)
- SOC 3204—Culture, Food, and Agriculture [ENVT] (4 cr)
- SOC 3251—African Americans [HDIV] (4 cr)
- SOC 3252—Women in Muslim Society [IP] (4 cr)
- SOC 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)
- SOC 3602—Women in Latin America [IP] (4 cr)
- SOC 4991—Sociology Independent Project Seminar (4 cr)
- SOC 2xxx, 3xxx, 4xxx

### Spanish K-12 Sub-plan

#### Required Courses for the Sub-plan

- SPAN 2001—Intermediate Spanish I [IP] (4 cr)
- SPAN 2002—Intermediate Spanish II [IP] (4 cr)
- SPAN 3011—Conversation, Composition, and Culture [IP] (2 cr)
- SPAN 3012—Spanish Grammar in Practice [IP] (2 cr)
- SPAN 3111—Readings in Spanish I [HUM] (2 cr)
- SPAN 3112—Readings in Spanish II [HUM] (2 cr)
- SPAN 3211—Literature and Culture of Latin America [HUM] (4 cr)
- SPAN 3212—Literature and Culture of Spain [HUM] (4 cr)
- 3 additional courses at 36xx level (12 cr)
- Study abroad is strongly encouraged.

### Visual Arts K-12 Sub-plan

#### Required Courses for the Sub-plan

- ARTH 1101—Principles of Art [FA] (4 cr)
- ARTH 1111—Ancient to Medieval Art [FA] (4 cr)
- ARTH 1121—Renaissance to Modern Art [FA] (4 cr)
- ARTS 1101—Basic Studio Drawing I [ART/P] (2 cr)
- ARTS 1102—Basic Studio Drawing II [ART/P] (2 cr)
- ARTS 1103—Basic Studio 2-D Design [ART/P] (2 cr)
- ARTS 1104—Basic Studio 3-D Design [ART/P] (2 cr)
- ARTS 1105—Basic Studio Discussion I [ART/P] (1 cr)
- ARTS 1106—Basic Studio Discussion II [ART/P] (1 cr)

- ARTS 3500—Photographic and Digital Processes I [ART/P] (3 cr)
- or ARTS 3510—Photographic and Digital Processes II [ART/P] (3 cr)

- ARTS 3014—Media Studies: Fabric as Form [ART/P] (3 cr)
- or ARTS 3002—Media Studies: Artist's Books [ART/P] (3 cr)
- or ARTS 3006—Media Studies: Feminist Art: A Studio Perspective [ART/P] (3 cr)

*Minimum 12 cr in one of the following media plus 6 cr in another and 3 cr in the third media:*

#### First Media

*complete 12 credits*

##### Printmaking

- ARTS 3200—Printmaking Studio I [ART/P] (3 cr)
- ARTS 3210—Printmaking Studio II [ART/P] (3 cr)

##### or Painting

- ARTS 3300—Painting Studio I [ART/P] (3 cr)
- ARTS 3310—Painting Studio II [ART/P] (3 cr)

##### or Sculpture

- ARTS 3400—Sculpture Studio I [ART/P] (3 cr)
- ARTS 3410—Sculpture Studio II [ART/P] (3 cr)

##### or Ceramics

- ARTS 1050—Beginning Ceramics [ART/P] (3 cr)
- ARTS 3650—Advanced Ceramics [ART/P] (3 cr)

##### or Drawing

- ARTS 3100—Advanced Drawing I [ART/P] (3 cr)
- ARTS 3110—Advanced Drawing II [ART/P] (3 cr)

##### or Photography/Digital Imaging

- ARTS 3500—Photographic and Digital Processes I [ART/P] (3 cr)
- ARTS 3510—Photographic and Digital Processes II [ART/P] (3 cr)

#### Second Media

*complete 6 credits (must be different from first media)*

##### Printmaking

- ARTS 3200—Printmaking Studio I [ART/P] (3 cr)
- ARTS 3210—Printmaking Studio II [ART/P] (3 cr)

##### or Painting

- ARTS 3300—Painting Studio I [ART/P] (3 cr)
- ARTS 3310—Painting Studio II [ART/P] (3 cr)

##### or Sculpture

- ARTS 3400—Sculpture Studio I [ART/P] (3 cr)
- ARTS 3410—Sculpture Studio II [ART/P] (3 cr)

##### or Ceramics

- ARTS 1050—Beginning Ceramics [ART/P] (3 cr)
- ARTS 3650—Advanced Ceramics [ART/P] (3 cr)

##### or Drawing

- ARTS 3100—Advanced Drawing I [ART/P] (3 cr)
- ARTS 3110—Advanced Drawing II [ART/P] (3 cr)

##### or Photography/Digital Imaging

- ARTS 3500—Photographic and Digital Processes I [ART/P] (3 cr)
- ARTS 3510—Photographic and Digital Processes II [ART/P] (3 cr)

#### Third Media

*complete 3 credits (must be different from the first and second media)*

- ARTS 1050—Beginning Ceramics [ART/P] (3 cr)
- or ARTS 3100—Advanced Drawing I [ART/P] (3 cr)
- or ARTS 3200—Printmaking Studio I [ART/P] (3 cr)
- or ARTS 3300—Painting Studio I [ART/P] (3 cr)
- or ARTS 3400—Sculpture Studio I [ART/P] (3 cr)
- or ARTS 3500—Photographic and Digital Processes I [ART/P] (3 cr)

### Vocal Music K-12 Sub-plan

#### Required Courses for the Sub-plan

- MUS 1061—Introduction to World Music [IP] (4 cr)
- MUS 1101—Core Studies I: Music Theory I [M/SR] (4 cr)
- MUS 1102—Core Studies I: Music Theory II [M/SR] (4 cr)

MUS 1200-1223-Individual Performance Studies (consult with music faculty to determine performance studies requirements)  
 MUS 1320-Concert Choir [ART/P] (1 cr)  
 MUS 1401-English, Italian, German, and French Diction for Singers [ART/P] (1 cr)  
 MUS 2101-Core Studies II: Music Theory III [FA] (4 cr)  
 MUS 2102-Core Studies II: Music Theory IV [FA] (4 cr)  
 MUS 2301-Instrumental Techniques--Woodwind (1 cr)  
 MUS 2302-Instrumental Techniques--Brass (1 cr)  
 MUS 2303-Instrumental Techniques--Strings (1 cr)  
 MUS 2304-Vocal Techniques (1 cr)  
 MUS 3101-Core Studies III: Medieval, Renaissance, and Baroque Music [HIST] (4 cr)  
 MUS 3102-Core Studies III: Classical, Romantic, and 20th-Century Music [FA] (4 cr)  
 MUS 3200-3223-Advanced Individual Performance Studies in voice or guitar (consult with music faculty to determine performance studies requirements)  
 MUS 3311-Conducting Techniques (2 cr)  
 MUS 3331-Choral Conducting and Materials (2 cr)  
 MUS 3353-Music Arranging and Orchestration (2 cr)  
 MUS 4901-Senior Project and Portfolio (1 cr)

#### Concert Attendance

Seven successful completions of MUS 1000-Concert Attendance

#### Piano Proficiency

Music theory courses (1101, 1102, 2101, 2102) are taken concurrently with piano lessons or functional keyboard for the Music Major, Mus 1111, 1112, 2111, 2112 until the piano proficiency test is passed.

#### Secondary Performance

Secondary performance competence on another family (wind, string, percussion, or keyboard)

## Education, Secondary Course Descriptions

**SEED 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**SEED 4102. Teaching and Learning Strategies.** (2 cr; A-F only; prereq admission to the secondary teacher education program; coreq 4103, 4104, 4105, methods; fall, every year)  
 Provides greater depth in previously taught concepts and skills, including teaching and learning strategies for middle and secondary classrooms, planning for lesson and unit instruction and assessment, learning theory, use of technology in the classroom, discipline, and classroom management.

**SEED 4103. Practicum Experience in the Middle and Secondary School.** (4 cr; S-N only; prereq admission to the secondary teacher education program; coreq 4102, 4104, 4105, methods; fall, every year)  
 Field experience in the middle and secondary school.

**SEED 4104. Teaching Diverse Learners.** (HDIV; 2 cr; A-F only; prereq admission to the secondary teacher education program; coreq 4102, 4103, 4105, methods; fall, every year)  
 Study of teaching/learning in diverse settings. Topics include multiple intelligences/learning styles; multicultural education; race, gender, sexual orientation, disability, culture, and class; effects of inequity on schooling; preventing and responding to prejudice and discrimination; and intercultural communication.

**SEED 4105. Reading and Literacy in the Content Areas.** (2 cr; A-F only; prereq admission to the secondary teacher education program; coreq 4102, 4103, 4104, methods; fall, every year)  
 Study of how teachers in the various academic disciplines can support reading and literacy in their classrooms and use reading and literacy to enhance learning in the disciplines. Topics include theory and instructional strategies in the areas of reading comprehension, fluency, and vocabulary development.

**SEED 4115. Advanced Content Reading.** (HUM; 2 cr; A-F only; prereq 4105; fall, spring, every year)  
 Study of how teachers in the various academic disciplines can support reading and literacy in their classrooms and use reading and literacy to

enhance learning in the disciplines. Topics include subject-specific theories, strategies, and projects.

**SEED 4201. Directed Student Teaching in the Middle and Secondary School.** (HDIV; 12 cr; S-N only; prereq 4102, 4103, 4104, 4105, methods, CMR 1042 or CMR 1052, passing scores on MTLE basic skills or #; special fee required; spring, every year)  
 Students teach for a period of 10 to 12 weeks demonstrating application of approaches to teaching and learning in the middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

**SEED 4202. Directed Student Teaching in the Middle and Secondary School.** (1-16 cr; S-N only; prereq passing scores on MTLE basic skills or #; special fee required; fall, spring, every year)  
 For students who need alternative or additional student teaching experience. Students demonstrate application of approaches to teaching and learning in middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

**SEED 4204. Directed Student Teaching in International School at the Middle and Secondary Level.** (IP; 12 cr; S-N only; prereq 4102, 4103, 4104, 4105, methods, CMR 1042 or CMR 1052, passing scores on MTLE basic skills or #; special fee required; spring, every year)  
 Students teach for a period of 10 to 12 weeks demonstrating application of approaches to teaching and learning in the middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

**SEED 4205. Directed Student Teaching in the Secondary School.** (1-16 cr; A-F only; prereq passing scores on MTLE basic skills or #; special fee required; fall, spring, summer, every year)  
 For students from colleges that require A-F grading for student teaching through the Global Student Teaching Program.

**SEED 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Middle and Secondary Education Methods Courses

These courses focus on the objectives, curricula, special methods, materials, and evaluation appropriate for teaching the various subject matter areas in the middle and secondary school. Students must complete methods courses in their licensure area(s). Methods courses are taken concurrently with secondary education block courses—SeEd 4102, 4103, 4104, 4105—and must be successfully completed before student teaching in a specific field.

**ARTE 4123. Methods of Teaching Art K-12.** (4 cr; A-F only; prereq admission to the secondary teacher education program, coreq SeEd 4102, SeEd 4103, SeEd 4104, SeEd 4105; fall, every year)  
 Objectives, curricula, special methods, materials, and evaluation appropriate for teaching art in K-12.

**ENGE 4121. Methods of Teaching Communication Arts and Literature in the Middle and Secondary School.** (4 cr; A-F only; prereq admission to the secondary teacher education program or elementary education program, coreq SeEd 4102, SeEd 4103 or prereq ELED 3202, ELED 3212; fall, every year)  
 Objectives, curricula, special methods, materials, and evaluation appropriate for teaching communication arts and literature in the middle and secondary school.

**LANE 4123. Methods of Teaching Foreign Language K-12.** (4 cr; A-F only; prereq admission to the SeEd or EEd teacher education program; coreq SeEd 4102, SeEd 4103, SeEd 4104, SeEd 4105 or prereq ELED 3202, ELED 3212; fall, every year)  
 Objectives, curricula, special methods, materials, and evaluation appropriate for teaching foreign language in K-12.

**MTHE 4121. Methods of Teaching Mathematics in the Middle and Secondary School.** (4 cr; A-F only; prereq admission to the secondary teacher education program or elementary education program, coreq SeEd 4102, SeEd 4103 or prereq ELED 3202, ELED 3212; fall, every year)  
 Objectives, curricula, special methods, materials, and evaluation appropriate for teaching mathematics in the middle and secondary school.

**MUSE 4123. Methods of Teaching Music K-12.** (4 cr; A-F only; prereq admission to the secondary teacher education program, coreq SeEd 4102, SeEd 4103, SeEd 4104, SeEd 4105; fall, every year) Objectives, curricula, special methods, materials, and evaluation appropriate for teaching music in K-12.

**SCIE 4121. Methods of Teaching Science in the Middle and Secondary School.** (4 cr; A-F only; prereq admission to the secondary teacher education program or elementary education program, coreq SeEd 4102, SeEd 4103 or prereq ELED 3202, ELED 3212; fall, every year) Objectives, curricula, special methods, materials, and evaluation appropriate for teaching science in the middle and secondary school.

**SSCE 4121. Methods of Teaching Social Science in the Middle and Secondary School.** (4 cr; A-F only; prereq admission to the secondary teacher education program or elementary education program, coreq SeEd 4102, SeEd 4103 or prereq ELED 3202, ELED 3212; fall, every year) Objectives, curricula, special methods, materials, and evaluation appropriate for teaching social science in the middle and secondary school.

## English (ENGL)

### *Division of the Humanities*

In English, students study literature and language, including its development over time and contemporary significance. Courses for both majors and non-majors offer a wide range of approaches and topics. Some courses focus on single authors, genres, or historical periods; others emphasize social contexts of literature, investigate representations of race or gender, or explore literary perceptions of the environment. Still others cover film, creative writing, and contemporary popular literature.

English offers a Creative Writing Track for English majors and a Creative Writing Minor for non-majors. The Creative Writing program includes introductory classes in the techniques of poetry and prose writing, advanced classes in genres such as fiction, poetry, and creative nonfiction, and a variety of topics courses.

**Objectives**—The curriculum introduces students to the main literary genres and important historical periods and movements in English; to representative works of British, American, and Anglophone literature; and to methods of critical interpretation. The major is designed to meet the needs of students with various goals, including those seeking a foundation for work in fields related to English (e.g., education, communications, editing and publishing, law, theater); those who want a humanistic base in reading, thinking, and writing for a liberal arts education; and those who intend to pursue graduate study in the field. Students engage in critical reading, oral and written analysis of texts, formal argumentation, and research.

English classes tend to be small and conversational. Students collaborate with one another by discussing subtle and complex texts while discovering their own interpretive voices by writing clear and persuasive essays.

### **Program Student Learning Outcomes**

Students will:

- \*Read and discuss in an analytical fashion both primary and secondary texts;
- \*Write a coherent argument, both with and without secondary sources;
- \*Demonstrate a sophisticated understanding of the English language;
- \*Demonstrate basic knowledge of critical approaches to literary study;
- \*Demonstrate basic knowledge of literary history;
- \*Conduct basic scholarly research and present it in a professional, scholarly setting; and
- \*Demonstrate a solid foundation for a lifelong appreciation of literature.

## English Major

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the major requirements. Courses may not be taken S-N, unless offered S-N only. A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota

coursework. Grades of "F" are included in GPA calculation until they are replaced.

### **Required Courses**

ENGL 2501—Literary Studies [HUM] (4 cr)

*Take exactly 12 credits from the following:*

ENGL 2201—Survey of British Literature to the 18th Century [HUM] (4 cr)

ENGL 2202—Survey of British Literature from the 18th Century Forward [HUM] (4 cr)

ENGL 2211—Survey of American Literature to the Civil War [HUM] (4 cr)

ENGL 2212—Survey of American Literature from the Civil War Forward [HUM] (4 cr)

### **Advanced Skills Courses**

*Take 4 or more credits from the following:*

ENGL 3005—Understanding Writing: Theories and Practices [HUM] (4 cr)

ENGL 3021—Grammar and Language [HUM] (4 cr)

ENGL 3411—Critical Approaches to Literature (4 cr)

### **Research Seminar**

A research-based study of a literary subject that forms a capstone experience for majors. 40xx courses are offered in rotation.

*Take 4 or more credits from the following:*

ENGL 4004—Research Seminar: Old English Literature and Language (4 cr)

ENGL 4012—Research Seminar: Imagining the Earth (4 cr)

ENGL 4017—Research Seminar: Tricksters-Conjurers in American Indian and African American Literature [HDIV] (4 cr)

ENGL 4023—Research Seminar: Nationalism and Irish Literature (4 cr)

ENGL 4024—Research Seminar: Poet's Choice: The Book as the 25th Poem (4 cr)

ENGL 4028—Research Seminar: Inventing a Nation: Early American National Literature (4 cr)

ENGL 4029—Research Seminar: Perspectives on Literacy (4 cr)

ENGL 4031—Research Seminar: Renaissance Romance (4 cr)

ENGL 4032—Research Seminar: Transnational Theory and Literatures (4 cr)

ENGL 4034—Research Seminar: The Adventure Novel in American and British Literature (4 cr)

ENGL 4035—Research Seminar: Booker Watch: Contemporary British Literature and the Emergence of Canonicity [IP] (4 cr)

ENGL 4036—Research Seminar: American Biographical Novel (4 cr)

### **Lower Level Elective Courses**

4 of the 40 credits in the major must have an HDIV designator at 2xxx or above. No more than 4 credits of 2xxx courses, other than the required surveys, may count in the major. A survey course, not used previously, may count as an elective.

*Take at most 4 credits from the following:*

ENGL 2014—Introduction to Popular Literature: Science Fiction [HUM] (4 cr)

ENGL 2015—Introduction to Film Studies [HUM] (4 cr)

ENGL 2016—Monsters and the Monstrous in English Literature [HUM] (4 cr)

ENGL 2022—Sports Literature and Writing [ART/P] (4 cr)

ENGL 2031—Gender in Literature and Culture [HDIV] (4 cr)

ENGL 2033—The Bible and Literature [HUM] (4 cr)

ENGL 2041—Introduction to African American Literature [HDIV] (4 cr)

ENGL 2059—Introduction to Shakespeare [HUM] (4 cr)

ENGL 2061—Introduction to Popular Literature: Detection and Espionage in Fiction and Film [HUM] (4 cr)

ENGL 2106—Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World [ENVT] (4 cr)

ENGL 2107—Writing with Digital Media [HUM] (4 cr)

ENGL 2121—Topics in Writing: Introduction to Creative Writing [ART/P] (4 cr)

ENGL 2171—Topics in Writing: Editing and Proofreading [HUM] (4 cr)

ENGL 2173—The Nature Essay: Writing and Reading Creative Non-fiction about the Natural World [ENVT] (4 cr)

ENGL 2201—Survey of British Literature to the 18th Century [HUM] (4 cr)

ENGL 2202–Survey of British Literature from the 18th Century Forward [HUM] (4 cr)  
 ENGL 2211–Survey of American Literature to the Civil War [HUM] (4 cr)  
 ENGL 2212–Survey of American Literature from the Civil War Forward [HUM] (4 cr)  
 ENGL 2411–Representations of American Indians in Popular and Academic Culture [HDIV] (4 cr)  
 ENGL 2xxx  
 HUM 1xxx, 2xxx, 3xxx, 4xxx

### Upper Level Elective Courses

Up to 4 credits of 3993, 4993 may count in the major.

*Take 12 or more credits from the following:*

ENGL 3012–Advanced Fiction Writing [ART/P] (4 cr)  
 ENGL 3015–Writing Poetry for the 21st Century [ART/P] (4 cr)  
 ENGL 3016–Innovations on the Page [ART/P] (4 cr)  
 ENGL 3017–Book Publishing: History and Contemporary Trends [HUM] (4 cr)  
 ENGL 3032–Creative Nonfiction Writing [ART/P] (4 cr)  
 ENGL 3142–The Rise of the Novel (4 cr)  
 ENGL 3153–Gothic Literature (4 cr)  
 ENGL 3154–19th-Century British Fiction (4 cr)  
 ENGL 3155–20th-Century British Fiction (4 cr)  
 ENGL 3156–Modern Irish Literature (4 cr)  
 ENGL 3157–English Renaissance Drama (4 cr)  
 ENGL 3159–Shakespeare: Studies in the Bard (4 cr)  
 ENGL 3161–Medieval Literature (4 cr)  
 ENGL 3163–Life in a Medieval City: Literature and Culture in York, 700-1500 [HUM] (4 cr)  
 ENGL 3165–Seventeenth-Century Revolutions (4 cr)  
 ENGL 3166–Postcolonial Literature (4 cr)  
 ENGL 3168–Victorian Literature and Culture (4 cr)  
 ENGL 3171–The Literature of Creative Nonfiction (4 cr)  
 ENGL 3172–American Utopian Literature (4 cr)  
 ENGL 3173–Contemporary British Literature (4 cr)  
 ENGL 3174–Contemporary Indian and Caribbean Literature [IP] (4 cr)  
 ENGL 3253–Modern and Postmodern Love in the Novel (4 cr)  
 ENGL 3261–Modern British and American Poetry (4 cr)  
 ENGL 3262–20th-Century American Poetry: From Modern to Contemporary (4 cr)  
 ENGL 3301–U.S. Multicultural Literature [HDIV] (4 cr)  
 ENGL 3311–American Indian Literature [HDIV] (4 cr)  
 ENGL 3312–World Indigenous Literature and Film [HDIV] (4 cr)  
 ENGL 3331–African American Literature [HDIV] (4 cr)  
 ENGL 3332–African American Women Writers [HDIV] (4 cr)  
 ENGL 3414–Feminist Theory [HDIV] (4 cr)  
 ENGL 3444–Holocaust Literature and Film [IP] (4 cr)  
 ENGL 3522–Harlem Renaissance [HDIV] (4 cr)  
 ENGL 3993–Directed Study (1-5 cr)  
 ENGL 4993–Directed Study (1-5 cr)  
 ENGL 3xxx, 4xxx

### Program Sub-plans

A sub-plan is not required for this program.

### Creative Writing Sub-plan

Students must complete 12 credits to satisfy the requirements for the creative writing sub-plan. Courses used to satisfy the creative writing requirements are exclusive of any used to complete the major requirements.

#### Required Courses

We strongly recommend that students take Engl 2121 in the classroom and not online.

ENGL 2121–Topics in Writing: Introduction to Creative Writing [ART/P] (4 cr)

#### Writing Courses

Students must complete eight credits. At least four of these credits must be at the 3000-level.

*Take at most 4 credits from the following:*

ENGL 2022–Sports Literature and Writing [ART/P] (4 cr)

ENGL 2106–Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World [ENVT] (4 cr)

*Take 4 or more credits from the following:*

ENGL 3012–Advanced Fiction Writing [ART/P] (4 cr)  
 ENGL 3015–Writing Poetry for the 21st Century [ART/P] (4 cr)  
 ENGL 3016–Innovations on the Page [ART/P] (4 cr)  
 ENGL 3032–Creative Nonfiction Writing [ART/P] (4 cr)

### Public Reading Participation

Participation in public reading of creative work during graduation year.

## English Minor

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate.

The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

ENGL 2501–Literary Studies [HUM] (4 cr)

*Take exactly 8 credits from the following:*

ENGL 2201–Survey of British Literature to the 18th Century [HUM] (4 cr)  
 ENGL 2202–Survey of British Literature from the 18th Century Forward [HUM] (4 cr)  
 ENGL 2211–Survey of American Literature to the Civil War [HUM] (4 cr)  
 ENGL 2212–Survey of American Literature from the Civil War Forward [HUM] (4 cr)

### Elective Courses

4 of the 20 credits in the minor must have an HDIV designator at 2xxx or above. No more than 4 credits of 2xxx courses, other than the required surveys, may count in the major. A survey course, not used previously, may count as an elective.

*Take at most 4 credits from the following:*

ENGL 2014–Introduction to Popular Literature: Science Fiction [HUM] (4 cr)  
 ENGL 2015–Introduction to Film Studies [HUM] (4 cr)  
 ENGL 2016–Monsters and the Monstrous in English Literature [HUM] (4 cr)  
 ENGL 2022–Sports Literature and Writing [ART/P] (4 cr)  
 ENGL 2031–Gender in Literature and Culture [HDIV] (4 cr)  
 ENGL 2033–The Bible and Literature [HUM] (4 cr)  
 ENGL 2041–Introduction to African American Literature [HDIV] (4 cr)  
 ENGL 2059–Introduction to Shakespeare [HUM] (4 cr)  
 ENGL 2061–Introduction to Popular Literature: Detection and Espionage in Fiction and Film [HUM] (4 cr)  
 ENGL 2106–Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World [ENVT] (4 cr)  
 ENGL 2107–Writing with Digital Media [HUM] (4 cr)  
 ENGL 2121–Topics in Writing: Introduction to Creative Writing [ART/P] (4 cr)  
 ENGL 2171–Topics in Writing: Editing and Proofreading [HUM] (4 cr)  
 ENGL 2172–Topics in Writing: Professional Writing Skills (4 cr)  
 ENGL 2173–The Nature Essay: Writing and Reading Creative Nonfiction about the Natural World [ENVT] (4 cr)  
 ENGL 2201–Survey of British Literature to the 18th Century [HUM] (4 cr)  
 ENGL 2202–Survey of British Literature from the 18th Century Forward [HUM] (4 cr)  
 ENGL 2211–Survey of American Literature to the Civil War [HUM] (4 cr)  
 ENGL 2212–Survey of American Literature from the Civil War Forward [HUM] (4 cr)  
 ENGL 2411–Representations of American Indians in Popular and Academic Culture [HDIV] (4 cr)  
 ENGL 2xxx

Take 4 or more credits from the following:

- ENGL 3005—Understanding Writing: Theories and Practices [HUM] (4 cr)  
 ENGL 3012—Advanced Fiction Writing [ART/P] (4 cr)  
 ENGL 3015—Writing Poetry for the 21st Century [ART/P] (4 cr)  
 ENGL 3016—Innovations on the Page [ART/P] (4 cr)  
 ENGL 3017—Book Publishing: History and Contemporary Trends [HUM] (4 cr)  
 ENGL 3021—Grammar and Language [HUM] (4 cr)  
 ENGL 3032—Creative Nonfiction Writing [ART/P] (4 cr)  
 ENGL 3142—The Rise of the Novel (4 cr)  
 ENGL 3153—Gothic Literature (4 cr)  
 ENGL 3154—19th-Century British Fiction (4 cr)  
 ENGL 3155—20th-Century British Fiction (4 cr)  
 ENGL 3156—Modern Irish Literature (4 cr)  
 ENGL 3157—English Renaissance Drama (4 cr)  
 ENGL 3159—Shakespeare: Studies in the Bard (4 cr)  
 ENGL 3161—Medieval Literature (4 cr)  
 ENGL 3163—Life in a Medieval City: Literature and Culture in York, 700-1500 [HUM] (4 cr)  
 ENGL 3165—Seventeenth-Century Revolutions (4 cr)  
 ENGL 3166—Postcolonial Literature (4 cr)  
 ENGL 3168—Victorian Literature and Culture (4 cr)  
 ENGL 3171—The Literature of Creative Nonfiction (4 cr)  
 ENGL 3172—American Utopian Literature (4 cr)  
 ENGL 3173—Contemporary British Literature (4 cr)  
 ENGL 3174—Contemporary Indian and Caribbean Literature [IP] (4 cr)  
 ENGL 3253—Modern and Postmodern Love in the Novel (4 cr)  
 ENGL 3261—Modern British and American Poetry (4 cr)  
 ENGL 3262—20th-Century American Poetry: From Modern to Contemporary (4 cr)  
 ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)  
 ENGL 3311—American Indian Literature [HDIV] (4 cr)  
 ENGL 3312—World Indigenous Literature and Film [HDIV] (4 cr)  
 ENGL 3331—African American Literature [HDIV] (4 cr)  
 ENGL 3332—African American Women Writers [HDIV] (4 cr)  
 ENGL 3411—Critical Approaches to Literature (4 cr)  
 ENGL 3414—Feminist Theory [HDIV] (4 cr)  
 ENGL 3444—Holocaust Literature and Film [IP] (4 cr)  
 ENGL 3522—Harlem Renaissance [HDIV] (4 cr)  
 ENGL 4004—Research Seminar: Old English Literature and Language (4 cr)  
 ENGL 4012—Research Seminar: Imagining the Earth (4 cr)  
 ENGL 4017—Research Seminar: Tricksters-Conjurers in American Indian and African American Literature [HDIV] (4 cr)  
 ENGL 4023—Research Seminar: Nationalism and Irish Literature (4 cr)  
 ENGL 4024—Research Seminar: Poet's Choice: The Book as the 25th Poem (4 cr)  
 ENGL 4028—Research Seminar: Inventing a Nation: Early American National Literature (4 cr)  
 ENGL 4029—Research Seminar: Perspectives on Literacy (4 cr)  
 ENGL 4031—Research Seminar: Renaissance Romance (4 cr)  
 ENGL 4032—Research Seminar: Transnational Theory and Literatures (4 cr)  
 ENGL 4034—Research Seminar: The Adventure Novel in American and British Literature (4 cr)  
 ENGL 4035—Research Seminar: Booker Watch: Contemporary British Literature and the Emergence of Canonicity [IP] (4 cr)  
 ENGL 4036—Research Seminar: American Biographical Novel (4 cr)  
 ENGL 3xxx, 4xxx

## Creative Writing Minor for non-English Majors

**Objectives**—The Creative Writing program combines the study of literature and the practice of writing with the goal of providing students with a strong basis for continuing development of their creative skills.

### Minor Requirements

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements. Courses may not be taken S-N, unless

offered S-N only. A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

We strongly recommend that students take Engl 2121 in the classroom and not online.

- ENGL 2121—Topics in Writing: Introduction to Creative Writing [ART/P] (4 cr)  
 ENGL 2501—Literary Studies [HUM] (4 cr)

### Writing Courses

At least one of these courses must be a 3000-level course.

Take 2 or more courses from the following:

- ENGL 2022—Sports Literature and Writing [ART/P] (4 cr)  
 ENGL 2106—Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World [ENVT] (4 cr)  
 ENGL 3012—Advanced Fiction Writing [ART/P] (4 cr)  
 ENGL 3015—Writing Poetry for the 21st Century [ART/P] (4 cr)  
 ENGL 3016—Innovations on the Page [ART/P] (4 cr)  
 ENGL 3032—Creative Nonfiction Writing [ART/P] (4 cr)

### Literature Course—2000-level

Take 1 or more courses from the following:

- ENGL 2014—Introduction to Popular Literature: Science Fiction [HUM] (4 cr)  
 ENGL 2031—Gender in Literature and Culture [HDIV] (4 cr)  
 ENGL 2033—The Bible and Literature [HUM] (4 cr)  
 ENGL 2041—Introduction to African American Literature [HDIV] (4 cr)  
 ENGL 2059—Introduction to Shakespeare [HUM] (4 cr)  
 ENGL 2061—Introduction to Popular Literature: Detection and Espionage in Fiction and Film [HUM] (4 cr)  
 ENGL 2201—Survey of British Literature to the 18th Century [HUM] (4 cr)  
 ENGL 2202—Survey of British Literature from the 18th Century Forward [HUM] (4 cr)  
 ENGL 2211—Survey of American Literature to the Civil War [HUM] (4 cr)  
 ENGL 2212—Survey of American Literature from the Civil War Forward [HUM] (4 cr)  
 ENGL 2411—Representations of American Indians in Popular and Academic Culture [HDIV] (4 cr)

### Literature Course—3000-level

Students who have completed the prerequisites may use one of the following courses to meet the literature course requirement.

Take 0 or more courses from the following:

- ENGL 3142—The Rise of the Novel (4 cr)  
 ENGL 3153—Gothic Literature (4 cr)  
 ENGL 3154—19th-Century British Fiction (4 cr)  
 ENGL 3155—20th-Century British Fiction (4 cr)  
 ENGL 3156—Modern Irish Literature (4 cr)  
 ENGL 3157—English Renaissance Drama (4 cr)  
 ENGL 3159—Shakespeare: Studies in the Bard (4 cr)  
 ENGL 3161—Medieval Literature (4 cr)  
 ENGL 3165—Seventeenth-Century Revolutions (4 cr)  
 ENGL 3166—Postcolonial Literature (4 cr)  
 ENGL 3168—Victorian Literature and Culture (4 cr)  
 ENGL 3171—The Literature of Creative Nonfiction (4 cr)  
 ENGL 3173—Contemporary British Literature (4 cr)  
 ENGL 3174—Contemporary Indian and Caribbean Literature [IP] (4 cr)  
 ENGL 3253—Modern and Postmodern Love in the Novel (4 cr)  
 ENGL 3261—Modern British and American Poetry (4 cr)  
 ENGL 3262—20th-Century American Poetry: From Modern to Contemporary (4 cr)  
 ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)  
 ENGL 3311—American Indian Literature [HDIV] (4 cr)  
 ENGL 3331—African American Literature [HDIV] (4 cr)  
 ENGL 3332—African American Women Writers [HDIV] (4 cr)  
 ENGL 3444—Holocaust Literature and Film [IP] (4 cr)  
 ENGL 3522—Harlem Renaissance [HDIV] (4 cr)



**Public Reading Participation**

Participation in public reading of creative work during graduation year.

**Teacher Preparation Requirements**

Students seeking teaching licensure in communication arts and literature 5–12 should refer to the Education, Secondary (SeEd) section of this catalog. Students completing the course requirements for licensure in Communication Arts/Literature are strongly encouraged to earn an English major. The licensure requirements alone will not yield a major.

**English Course Descriptions**

**ENGL 1001. Fundamentals of Writing.** (4 cr; does not fulfill the Writing for the Liberal Arts (WLA) requirement; fall, every year)  
Intensive practice in the fundamentals of writing. Students learn and apply strategies for generating, organizing, revising, and editing their writing.

**ENGL 1011. College Writing.** (4 cr; does not fulfill the Writing for the Liberal Arts (WLA) requirement; fall, spring, offered periodically)  
Practice in academic writing, with special emphasis on argumentation, reading closely and critically for the purposes of scholarly analysis, responding to and making use of the work of others, and drafting and revising texts.

**ENGL 1601. Writing for the Liberal Arts.** (WLA; 4 cr; fall, spring, every year)  
Instruction in academic writing: analysis, argument, inquiry, research, scholarly conversation, clarity, style. Emphasis on writing processes: plan, draft, review, rewrite, revise. Development of information literacy: identify, locate, evaluate, cite, and use electronic and print resources. Workshops with peers and instructor.

**ENGL 1801. Fan Cultures and Fan Creativity.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Exploration of histories and theories of media fandom: communities dedicated to celebrating, analyzing, and transforming commercial entertainment (film, TV, music, books, comics) through discussions, fan works, and other interactions and activities. Assignments include both written and multimedia projects.

**ENGL 1802. You're Here! Where's Here?: Reading the Prairie.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; field trips outside of class are required; credit will not be granted if cr has been received for IS 1813; fall, every year)  
Explore the idea of place and the nature of the place that is the western Minnesota prairie through film, art, and readings by writers such as Bill Holm, Paul Gruchow, Meridel LeSueur, Adrian Louis, Robert Bly, Thomas McGrath, and Carol Bly.

**ENGL 1803. Shakespearean Adaptations.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Read four Shakespeare plays and watch a range of contemporary film adaptations of each one. The course also incorporates discussion (about the texts, the nature of adaptation, Shakespeare's celebrity, etc.) and addresses skills essential to academic success (research, collaboration with peers, analytical writing, etc.).

**ENGL 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ENGL 2014. Introduction to Popular Literature: Science Fiction.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; fall, offered periodically)  
Introduction to popular literature in a variety of styles and forms with emphasis on analysis and context.

**ENGL 2015. Introduction to Film Studies.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; weekly lab required for viewing films; spring, offered periodically)  
Develops students' abilities to view films critically and to deepen their understanding of the film experience. Begins with critical analysis skills and terminology, then takes up the study of genres and styles, including documentaries and foreign films.

**ENGL 2016. Monsters and the Monstrous in English Literature.** (HUM; 4 cr; spring, offered periodically)  
Monsters in literature reveal our fascination with the supernatural and the grotesque, with the unknown and the boundaries of what it means to be human. Explore how writers have imagined monsters and in what

contexts, with examples from the Middle Ages to the present and from British and American literature and film.

**ENGL 2022. Sports Literature and Writing.** (ART/P; 4 cr; prereq 1601 (or 1011) or equiv; fall, offered periodically)  
Introduction to sports literature and sports writing, including exploration of rhetorical modes and techniques.

**ENGL 2031. Gender in Literature and Culture.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; fall, spring, offered periodically)  
Introduction to literary and cultural representations of gender. Emphasis on the intersections between power and the social relations of gender, race, class, and sexuality.

**ENGL 2033. The Bible and Literature.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; fall, offered periodically)  
Introduction to the role of the English Bible in the western literary tradition. Readings include key Biblical narratives, as well as English and American literary texts that are either deeply influenced by these stories or attempt to re-write them.

**ENGL 2041. Introduction to African American Literature.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; spring, offered periodically)  
Introduction to issues and themes in African American literature and culture, with emphasis on historical and cultural context.

**ENGL 2059. Introduction to Shakespeare.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; spring, odd years)  
A careful reading of a representative selection of Shakespeare's poetry and plays (including histories, comedies, tragedies, and romances). Consideration of generic and dramatic conventions, cultural contexts, literary elements, and performance choices on stage and in film. Serves non-majors as well as majors.

**ENGL 2061. Introduction to Popular Literature: Detection and Espionage in Fiction and Film.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; fall, even years)  
Examination of the detective and espionage genres in relation to 20th-century social and geopolitical pressures.

**ENGL 2106. Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World.** (ENVT; 4 cr; prereq 1601 (or 1011) or equiv; fall, spring, offered periodically)  
Writing about the environment. Students learn to use the rich possibilities of language to express their responses to nature and convey to others the importance of close contact with the natural world. Readings in poetry and prose, discussion of technique, and experimentation with a variety of styles and literary forms.

**ENGL 2107. Writing with Digital Media.** (HUM; 4 cr; prereq 1601; spring, offered periodically)  
Theory and practice of planning, designing, creating, and revising digital texts, including assessing writing situations to choose appropriate form. Students learn building blocks of writing in digital environments (text, sound, images, video), produce texts using these elements, read about multimodal composing, and analyze digital media works.

**ENGL 2121. Topics in Writing: Introduction to Creative Writing.** (ART/P; 4 cr; prereq 1601 (or 1011) or equiv; fall, every year)  
Introduction to the basic elements of creative writing, including exploration of poetry, story, and journal writing. Practice with techniques such as dialogue, description, voice, and style.

**ENGL 2171. Topics in Writing: Editing and Proofreading.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv; spring, offered periodically)  
Students learn and practice the techniques of developmental editing, copyediting, and proofreading, while exploring career applications for these skills.

**ENGL 2172. Topics in Writing: Professional Writing Skills.** (4 cr; summer, offered periodically)  
For students interested in improving their writing skills in preparation for job hunting and working in a professional environment. Students prepare resumes and cover letters, as well as explore the principles of effective professional communication, including email etiquette, memo writing, preparing reports and proposals, etc.

**ENGL 2173. The Nature Essay: Writing and Reading Creative Non-fiction about the Natural World.** (ENVT; 4 cr; prereq 1601; spring, offered periodically)  
Students write creative non-fiction centered on the natural world and read the work of noted essayists in the field such as Henry David Thoreau,

Grete Ehrlich, Scott Russell Sanders, Kathleen Dean Moore, and Terry Tempest Williams.

**ENGL 2201. Survey of British Literature to the 18th Century.** (HUM; 4 cr; fall, every year)

Readings in English poetry, prose, and/or drama from the beginnings to the 18th century. Specific authors vary.

**ENGL 2202. Survey of British Literature from the 18th Century Forward.** (HUM; 4 cr; spring, every year)

Readings in English poetry, prose, and/or drama from the 18th century to the present. Specific authors vary.

**ENGL 2211. Survey of American Literature to the Civil War.** (HUM; 4 cr; fall, spring, offered periodically)

Study of important texts, canonical and non-canonical, and important periods and movements that define the colonial and U.S. experience up to 1865.

**ENGL 2212. Survey of American Literature from the Civil War Forward.** (HUM; 4 cr; fall, spring, offered periodically)

Study of selected historical and literary texts in U.S. literature, canonical and non-canonical, from 1865 to the present.

**ENGL 2411. Representations of American Indians in Popular and Academic Culture.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; fall, offered periodically)

Study of representations of American Indians in American popular and academic culture including literature, films, and sports. Particular attention given to how Indian identity, history, and cultures are represented in pop culture by non-Indians and, more recently, Indians themselves.

**ENGL 2501. Literary Studies.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv; no credit for students who have received cr for Engl 1131; fall, spring, every year)

An introduction to the tools and methods of literary analysis, including the vocabulary of criticism, the techniques of close reading, and the conventions of literary argumentation. Primarily for English majors and minors. A prerequisite to advanced courses in English.

**ENGL 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ENGL 3005. Understanding Writing: Theories and Practices.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv, soph standing, #, coreq IS 3720 for students working in the Writing Room; fall, every year)

Introduction to composition theory: generating, composing, revising, and responding to writing; conventions across disciplines; strategies for teaching and tutoring writing. Weekly short assignments; three formal papers, written and revised in stages; oral presentation of research. Required for first-semester Writing Room staff.

**ENGL 3012. Advanced Fiction Writing.** (ART/P; 4 cr; prereq #; fall, spring, offered periodically)

For experienced writers. Focus on developing skills and mastering creative and technical elements of writing fiction.

**ENGL 3015. Writing Poetry for the 21<sup>st</sup> Century.** (ART/P; 4 cr; prereq 1601 (or 1011) or equiv; spring, offered periodically)

A creative writing class. Practice with the different elements of poetry—sound, rhythm, imagery, voice, line—and exploration of the ways contemporary poets use and transform traditional forms and techniques.

**ENGL 3016. Innovations on the Page.** (ART/P; 4 cr; prereq 2121; spring, offered periodically)

In this creative writing course, students explore new models in literary publishing, literary fiction, nonfiction, and poetry while writing and learning about sudden fiction, the lyric essay, the collage novel, linked short stories, and other innovative forms and movements.

**ENGL 3017. Book Publishing: History and Contemporary Trends.** (HUM; 4 cr; prereq 1601 (or 1011) or equiv; spring, offered periodically)

Consider the history of the book, the role of publishing in cultural production, the implications of the shift toward digital publishing, and an overview of the tasks involved in contemporary publishing, including acquisitions, editing, design, production, sales, and marketing.

**ENGL 3021. Grammar and Language.** (HUM; 4 cr; fall, every year)

Study of the English language. Historical development and current structure. Includes language variation and change, social history of language, phonology, syntax, semantics, development of English grammar, prescriptive versus descriptive grammar, and contemporary theories of grammar.

**ENGL 3032. Creative Nonfiction Writing.** (ART/P; 4 cr; prereq 1601 (or 1011) or equiv; spring, offered periodically)

For experienced writers. Focus on understanding and practicing the rhetorical and stylistic choices available to writers of creative nonfiction, especially decisions about structure, pacing, language, style, tone, detail, description, and narrative voice.

**ENGL 3142. The Rise of the Novel.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; spring, offered periodically)

The 18th-century origins of the British novel: experiments with the new form, influence of earlier genres, evolution of formal realism. Authors may include Austen, Burney, Fielding, Richardson, and Sterne.

**ENGL 3153. Gothic Literature.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically)

The cultural origins of gothic literature in tension with the neoclassical values of 18th-century Britain and its persistent influence over the next two centuries (including its relationship to modern horror fiction and film). Emphasis on the ways gothic tales encode cultural anxieties about gender, class, and power.

**ENGL 3154. 19th-Century British Fiction.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, spring, offered periodically)

The rise of the novel to respectability and prominence in Britain from the Romantics to the Victorians.

**ENGL 3155. 20th-Century British Fiction.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, spring, offered periodically)

Major novelists from the Modernist period and after, focusing on the historical context of the new challenges to literary tradition.

**ENGL 3156. Modern Irish Literature.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; spring, offered periodically)

The poetry, fiction, and drama of Irish writers from 1890-1927, with attention to the ways that literature shaped a national identity.

**ENGL 3157. English Renaissance Drama.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically)

A thorough study of the early modern English theater, including readings of 16th- and 17th-century plays and consideration of the literary and cultural contexts that informed them. Special attention is given to the works of Shakespeare's contemporaries, such as Marlowe, Jonson, Cary, Middleton, and Webster.

**ENGL 3159. Shakespeare: Studies in the Bard.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; spring, even years)

A topics-based study of Shakespeare's works and other pertinent texts. Sample topics include "Shakespeare's Women," "Dangerous Rhetoric in Shakespeare," and "Shakespeare and His Sources." Attention is given to historical and literary contexts, and students are asked to consider Shakespeare's work as it is read as well as performed.

**ENGL 3161. Medieval Literature.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, spring, offered periodically)

Early and later medieval prose, poetry, and drama produced and/or widely read in England from about 700-1500.

**ENGL 3163. Life in a Medieval City: Literature and Culture in York, 700-1500.** (HUM; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212 or #; summer, offered periodically)

Travel to York, England, to study the literature and history of the city from Anglo-Saxon times to the end of the Middle Ages. Focus on the role that York played as the second city of medieval England, emphasizing the diverse cultural influences on the city. Day trips to historically significant sites in the vicinity of York.

**ENGL 3165. Seventeenth-Century Revolutions.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically)

An in-depth study of how 17th-century British literature represents and responds to the numerous revolutionary changes of the time, including political, religious, sexual, cultural, and genre-based upheavals. Writers to be considered may include Philip Sidney, John Donne, Mary Wroth, George Herbert, Margaret Cavendish, Aphra Behn, and John Milton.

**ENGL 3166. Postcolonial Literature.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, spring, offered periodically)

Study of literature as site of cultural conflict during and after imperial encounters, from the perspectives of both colonizers and colonized peoples. Particular focus on Britain and its former colonies.

**ENGL 3168. Victorian Literature and Culture.** (4 cr; prereq 2501, two from 2201, 2201, 2211, 2212, or #; spring, every year)

Studies an array of 19th-century literary forms, including fiction, poetry, drama, and prose, in their social and political contexts.

**ENGL 3171. The Literature of Creative Nonfiction.** (4 cr; prereq 2501 (or 1131); summer, offered periodically)

Explore the genre of creative nonfiction as a literary tradition and help to articulate what creative nonfiction is (as well as what it isn't). Students collaborate in creating working definitions for the genre and prepare projects in which they curate and present a list of readings in the genre.

**ENGL 3172. American Utopian Literature.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically)

Americans have always been drawn to visions of transformation even as they shrink from imagined dangers. Investigate American literary responses to utopian possibilities and how that literature has shaped and continues to influence the American sense of the possible.

**ENGL 3173. Contemporary British Literature.** (4 cr; prereq 2501, two from 2201, 2202, 2211, 2212, or #; spring, offered periodically)

Exploration of contemporary British literature, with emphasis upon a diversity of new voices.

**ENGL 3174. Contemporary Indian and Caribbean Literature.** (IP; 4 cr; prereq 2501, two from 2201, 2201, 2211, 2212, or #; spring, offered periodically)

Exploration of contemporary literature in English from India and the Caribbean.

**ENGL 3253. Modern and Postmodern Love in the Novel.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212, #; fall, even years) Modernists and postmodernists are famous for casting an ironic glance on God and Truth. But are they as cynical and skeptical about love? In this course, students work through the writings of prominent 20th-century novelists who struggled to define love.

**ENGL 3261. Modern British and American Poetry.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically) A study of the continuities and break with traditions in 20th-century poetry. Focus on innovations and experiments in form and theme.

**ENGL 3262. 20th-Century American Poetry: From Modern to Contemporary.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically)

Study of the radical shifts in poetry and poetics in 20th-century America. Exploration of the ways that poets such as Robert Lowell, Adrienne Rich, Frank O'Hara, Denise Levertov, Allen Ginsberg, James Wright, and Sylvia Plath broke with modernist conventions and New Critical aesthetics and opened the field for the poetry of the late 20th and early 21st centuries.

**ENGL 3301. U.S. Multicultural Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212, or #; spring, offered periodically) Examination of literatures by African American, American Indian, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

**ENGL 3311. American Indian Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212, or #; fall, spring, offered periodically)

Study of American Indian literature written in English. Particular attention given to language, identity, land, and sovereignty.

**ENGL 3312. World Indigenous Literature and Film.** (HDIV; 4 cr; prereq 2501, two from 2201, 2202, 2211, 2212, or #, or Amln major; spring, even years)

Comparative study of indigenous literature and film from North America, New Zealand, and Australia with particular emphasis given to issues of political and cultural sovereignty, cultural appropriation, self-representation, and colonial nostalgia.

**ENGL 3331. African American Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, spring, offered periodically) Study of African American literature. Particular attention given to issues of gender, class, power, "passing," and the racialized body.

**ENGL 3332. African American Women Writers.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or #; fall, offered periodically)

If African Americans struggled to achieve equality and recognition in the racist United States, the situation was even more difficult for African American women, who had to contend with the sexism in both the white and black communities. This course examines the writings of prominent African American women.

**ENGL 3411. Critical Approaches to Literature.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically) An introduction to the major schools of literary theory and cultural analysis; particular attention to the ways in which the dialogue and debate between these approaches define the discipline of literary criticism.

**ENGL 3414. Feminist Theory.** (HDIV; 4 cr; =[GWSS 3414]; prereq [2501 (or 1131), two from 2201, 2202, 2211, 2212] or [GWSS 1101]; fall, spring, offered periodically)

Same as GWSS 3414. Engages students in a critical examination of several influential works participating in the elaboration of feminist theories. Readings and discussions focus on a series of themes and issues—gender, sexuality, race, class, language, bodies, etc.—and how these issues bear upon society.

**ENGL 3444. Holocaust Literature and Film.** (IP; 4 cr; prereq 1601 (or 1011) or equiv; fall, even years)

Survey of Holocaust literature and film, focusing on works that clarify the political ideology that led so many to participate in the murder of two-thirds of Europe's Jews and that articulated what Jews suffered during the Nazi era.

**ENGL 3522. Harlem Renaissance.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, even years)

During the 1920s, there was a major aesthetic outpouring in the African American community. Listen to jazz, examine African American artwork, and read poetry, short stories, novels and essays from Harlem Renaissance writers.

**ENGL 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ENGL 4004. Research Seminar: Old English Literature and Language.** (4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)

Prose and poetry of early medieval England (650-1100) in translation and in Old English (which is studied), with attention to material (manuscripts) and cultural contexts and to reception history.

**ENGL 4012. Research Seminar: Imagining the Earth.** (4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)

Study of imaginative writing (poetry and prose) about the earth, and an examination of the ways that language transforms or shapes our perceptions of the natural world. In addition to the primary literary works, students read selections about our understanding of the natural world from science, philosophy, and ecocriticism.

**ENGL 4017. Research Seminar: Tricksters—Conjurers in American Indian and African American Literature.** (HDIV; 4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)

Study of tricksters and conjurers in American Indian and African American literature, in particular their ability to maintain traditional practices and subvert the dominant culture and imposed cultural norms. Special attention given to cultural and historical contexts and questions of power, identity, cultural difference, and assimilation.

**ENGL 4023. Research Seminar: Nationalism and Irish Literature.** (4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)

Examination of 20th-century Irish literature through the lens of cultural nationalism. How questions of language, race, culture, and colonial history make the idea of Ireland problematic. Exploration of a diverse host of writers interested in Irish myths, ideals, and identities with research from Irish and postcolonial studies.

**ENGL 4024. Research Seminar: Poet's Choice: The Book as the 25th Poem.** (4 cr; prereq two from 31xx-35xx, #; spring, offered periodically)

"If you have a book of twenty-four poems, the book itself should be the twenty-fifth," claims poet James Wright. Study of single volumes of poetry, examination of the book as a whole, and consideration of the sequence of poems and recurring images and themes. Exploration of key movements of the 20th century, placing each volume in its literary context.

**ENGL 4028. Research Seminar: Inventing a Nation: Early American National Literature.** (4 cr; prereq two from 31xx-35xx, #; spring, offered periodically)

At the end of the Revolution, Americans set out to create a literature that would define the new nation. Writers adapted old forms and invented new ones in an effort to make American writing distinct and somehow reflective of the nation's values. This course explores those efforts, including drama, novels, magazine writing, and their contexts.

**ENGL 4029. Research Seminar: Perspectives on Literacy.** (4 cr; prereq two from 31xx-35xx, #; spring, even years)

Study of literacies and literate practices, both print and digital; the history and politics of defining literacy; and the role of technologies in literate activities.

**ENGL 4031. Research Seminar: Renaissance Romance.** (4 cr; prereq two from 31xx-35xx, #; fall, offered periodically)  
An intensive study of the ever-controversial and paradoxical romance genre of 16th- and 17th-century England. Texts include Sir Philip Sidney's "Arcadia," Lady Mary Wroth's "Urania," Robert Greene's "Menaphon," and William Shakespeare's "The Winter's Tale," among others.

**ENGL 4032. Research Seminar: Transnational Theory and Literatures.** (4 cr; prereq two from 31xx-35xx, #; spring, offered periodically)

An intensive study of transnational literature and theory from the turn of the 20th century to the present, emphasizing the movement of marginalized subjects to the center of cultural expression, the intertwining of cultures in contact zones, and the forms of identity emerging from these modern, hybrid cultures.

**ENGL 4034. Research Seminar: The Adventure Novel in American and British Literature.** (4 cr; prereq two from 31xx-35xx, #; fall, odd years)

Survey of adventure fiction in the Anglo-American tradition from Walter Scott through the mid 20th century, paying particular attention to themes that shaped this tradition, including imperialism and revisions of masculine identity.

**ENGL 4035. Research Seminar: Booker Watch: Contemporary British Literature and the Emergence of Canonicity.** (IP; 4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)

Comparison of leading contenders for the annual Booker Prize. Student research encompasses the history and controversies that have surrounded the Booker, the generic and national traditions favored in the prize, and the emergence of canonicity through the awarding of the prize.

**ENGL 4036. Research Seminar: American Biographical Novel.** (4 cr; prereq two from 31xx-35xx, #; spring, offered periodically)

Before the 1970s, there were only a handful of biographical novels, but since the 1980s, this genre of fiction has become incredibly popular. Examine what led to the rise of the biographical novel and examine a variety of such novels.

**ENGL 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Environmental Science (ESCI)

### *Division of Science and Mathematics*

This major is for students interested in an interdisciplinary science education that prepares them to deal with environmental challenges. The basic natural resources of land, air, and water are studied in the context of protecting and sustaining the environment. Students become knowledgeable about environmental issues and applied environmental science. The environmental science curriculum draws courses predominantly from the disciplines of the Division of Science and Mathematics.

### Environmental Science Major

Students are encouraged to fulfill distribution requirements with courses that complement the environmental science major (e.g., ECON 1111—Microeconomics, ECON 3007—Environmental and Natural Resource Economics I, and ECON 3008—Environmental and Natural Resource Economics II).

Selection of electives must be done in consultation with an environmental science adviser. By the beginning of their junior year, students should submit a clearly articulated educational plan and a list of selected electives, to be reviewed and approved by the Environmental Science Advisory Group.

Courses in the Division of Science and Math, other than those listed below, may be used to fulfill the "Elective Science Courses" with the prior approval of the Environmental Science Advisory Group.

Required courses may not be taken S-N unless offered S-N only.

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the major requirements. A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of F are included in GPA calculation until they are replaced.

## Required Courses

### Basic Sciences

CHEM 1101—General Chemistry I [SCI-L] (5 cr)  
CHEM 1102—General Chemistry II [SCI-L] (5 cr)  
MATH 1101—Calculus I [M/SR] (5 cr)  
or MATH 1021—Survey of Calculus [M/SR] (4 cr)  
PHYS 1101—General Physics I [SCI-L] (5 cr)  
or PHYS 1091—Principles of Physics I [SCI-L] (5 cr)  
STAT 1601—Introduction to Statistics [M/SR] (4 cr)  
or STAT 2601—Statistical Methods [M/SR] (4 cr)

### Applied Sciences

BIOL 3131—Ecology [SCI-L] (4 cr)  
GEOL 1101—Physical Geology [SCI-L] (4 cr)  
GEOL 2161—GIS and Remote Sensing [SCI] (4 cr)  
GEOL 3501—Hydrology [SCI] (4 cr)  
ENST 1101—Environmental Problems and Policy [ENVT] (4 cr)  
ESCI 4901—Environmental Science Senior Seminar I (1 cr)  
ESCI 4902—Environmental Science Senior Seminar II (1 cr)  
ENST 2101—Environmental Biology [SCI-L] (4 cr)  
or BIOL 1111—Fundamentals of Genetics, Evolution, and Development [SCI] (3 cr)  
BIOL 2101—Evolution of Biodiversity [SCI-L] (4 cr)

### Required Practicum

Completion of an applied educational experience in environmental science. An approved educational experience in a work, research, and/or field setting that provides a practical complement to the student's classroom learning experiences. Educational experiences are approved by the Environmental Science Advisory Group. A wide variety of experiences are possible, ESCI 3196—Environmental Science Field Camp is one example.

ESCI 3196—Environmental Science Field Camp [SCI] (2–4 cr)  
or Completion of an applied educational experience in environmental science.

### Elective Science Courses

Courses from at least two disciplines must be included. No more than 8 credits from 2xxx courses may be used to meet this requirement. If a second major is sought in the Division Science and Mathematics, at least 12 elective credits for the environmental science major must come from a discipline outside the second major (e.g., a geology major cannot apply more than 8 GEOL elective credits toward the environmental science major).

*Take 20 or more credits from the following:*

BIOL 4121—Herpetology (4 cr)  
BIOL 4131—Vertebrate Natural History (4 cr)  
BIOL 4151—Entomology (4 cr)  
BIOL 4172—Plant Systematics (4 cr)  
BIOL 4191—Freshwater Biology (4 cr)  
BIOL 4301—Plant Biology (4 cr)  
BIOL 4332—Ecology of Agriculture and Forestry [ENVT] (4 cr)  
BIOL 4333—Biogeochemistry and Global Change (4 cr)  
BIOL 4351—Conservation Biology (4 cr)  
CHEM 2301—Organic Chemistry I [SCI] (4 cr)  
CHEM 2302—Organic Chemistry II [SCI] (4 cr)  
CHEM 2304—Organic Chemistry II with a Biological Emphasis [SCI] (4 cr)  
CHEM 3101—Analytical Chemistry [SCI-L] (4 cr)  
CHEM 3301—The Chemistry of Sustainable Energy [SCI] (4 cr)  
CHEM 3501—Physical Chemistry I [SCI] (4 cr)  
ESCI 3111—Evolution of the Minnesota Prairie [SCI-L] (4 cr)  
ESCI 3301—The Chemistry of Sustainable Energy [SCI] (4 cr)  
GEOL 2001—Natural and Unnatural Geologic Hazards [ENVT] (4 cr)  
GEOL 2121—Sedimentology and Stratigraphy [SCI-L] (4 cr)  
GEOL 2131—Geomorphology [SCI] (4 cr)  
GEOL 2141—Glacial and Quaternary Geology [SCI] (4 cr)  
GEOL 3111—Introduction to Paleontology [SCI-L] (4 cr)  
GEOL 3502—Groundwater [ENVT] (4 cr)  
PHYS 2301—Atmospheric Physics [ENVT] (4 cr)  
STAT 4601—Biostatistics (4 cr)  
ESCI 3401—Polymer Chemistry and the Environment [SCI] (4 cr)  
or CHEM 3401—Polymer Chemistry and the Environment [SCI] (4 cr)

## Environmental Science Course Descriptions

### **BIOL 1111. Fundamentals of Genetics, Evolution, and Development.**

(SCI; 3 cr; prereq biol major/minor or chem major or any health sciences preprofessional program or EEd or SeEd major with middle school science specialties or #; fall, spring, every year)

Introduction to scientific methods and the history of biology, with an emphasis on mechanisms of inheritance, development, and descent with modification. Overview of pre-Darwinian scientific thought; the theory of evolution; a qualitative introduction to genetics and molecular biology; and a summary of developmental biology. (two 75-min lect)

### **BIOL 2101. Evolution of Biodiversity.** (SCI-L; 4 cr; prereq 1101 or 1111 or #; spring, every year)

Analysis of evolutionary trends using historical and contemporary evidence. Principles of classification and phylogenetic reconstruction. Includes laboratory survey of the major groups of organisms. (two 65-min lect, one 180-min lab)

### **BIOL 3131. Ecology.** (SCI-L; 4 cr; prereq Biol 2101 or EnSt 2101, Stat 1601 or 2601, or #; fall, every year)

Basic principles and models of population biology, community structure and function, and ecosystem dynamics. Lab exercises emphasize field work, techniques for characterizing local plant and animal communities, and experimental investigation of topics such as competition and behavioral ecology. (two 65-min lect, one 180-min lab and field study; weekend field trip required)

### **BIOL 4121. Herpetology.** (4 cr; prereq Biol 2101 or EnSt 2101 or #; spring, even years)

Survey of amphibians and reptiles, including their evolution, systematics, identification, behavior, ecological relationships, and contemporary problems associated with human activities. (two 65-min lect, one 180-min lab or field study)

### **BIOL 4131. Vertebrate Natural History.** (4 cr; prereq Biol 2101 or EnSt 2101 or #; spring, odd years)

Survey of vertebrates, including their evolution, systematics, and ecological relationships. (two 65-min lect, one 180-min lab or field study)

### **BIOL 4151. Entomology.** (4 cr; prereq Biol 2101 or EnSt 2101 or #; fall, even years)

Structure, life histories, habits, and classification of common families of insects, including their economic significance. (two 65-min lect, 180-min lab)

### **BIOL 4172. Plant Systematics.** (4 cr; prereq 2101 or EnSt 2101 or #; spring, odd years)

Survey of vascular plant taxa, with an emphasis on the flowering plant families and their evolutionary relationships. Lab emphasizes use of keys for identification of Midwestern plant families and genera. (two 65-min lect, 180-min lab)

### **BIOL 4191. Freshwater Biology.** (4 cr; prereq Biol 2101 or EnSt 2101, 2111 and prereq or coreq Stat 1601 or 2601 or #; fall, odd years)

Structure, function, and biota of freshwater ecosystems, including lakes, streams, and wetlands. Lab emphasizes independent research and field study in local habitats. (two 65-min lect, one 180-min lab; all day field trip required)

### **BIOL 4301. Plant Biology.** (4 cr; prereq Biol 2101, 2111 or #; fall, even years) Descriptive and experimental study of plants. Anatomy, development, physiology, secondary compounds, evolution, human uses of plants. (two 65-min lect, one 180-min lab)

### **BIOL 4332. Ecology of Agriculture and Forestry.** (ENVT; 4 cr; prereq 3131 or #; spring, even years)

Global and regional aspects of agriculture, forestry, and biofuel production in the context of community and ecosystem ecology. Nutrient cycling, carbon management, biodiversity, and the ecological challenges of feeding and providing energy to 9-12 billion people in the face of global climate change. Emphasis on analysis of primary literature. Short local field trips required.

### **BIOL 4333. Biogeochemistry and Global Change.** (4 cr; prereq 3131 or #; spring, odd years)

Cycling of elements vital to life, particularly, nitrogen (N), phosphorus (P), and carbon (C). Focus on understanding the feedback between physical and ecological processes and the biologically driven coupling of nutrient cycles. Analysis of humans as drivers of change in the biogeochemistry of ecosystems. Heavy emphasis on current primary literature.

### **BIOL 4351. Conservation Biology.** (4 cr; prereq Biol 2101 or EnSt 2101, coreq or prereq Biol 3131, Biol 3700 or #; fall, odd years)

Application of demographic and genetic models to protect biodiversity, including planning for uncertainty. Population viability, inbreeding depression, contemporary evolution, design and management of reserves, and invasive species. Lab exercises include field trips and computer modeling of endangered species. (two 65-min lect, one 180-min lab)

### **CHEM 1101. General Chemistry I.** (SCI-L; 5 cr; prereq Math 0901 or placement beyond Math 0901 using ACT/placement exam score; fall, every year)

Scientific method, measurements, nomenclature, stoichiometry, atomic and molecular structure, thermochemistry, chemical periodicity, introduction to chemical bonding, and properties of common elements and ions. Development of scientific reasoning and problem-solving skills. Laboratory exercises concomitant with these topics. (three 65-min lect, 180 min lab)

### **CHEM 1102. General Chemistry II.** (SCI-L; 5 cr; prereq 1101; spring, every year)

Continuation of Chem 1101. Chemical bonding, states of matter, solutions, acid-base chemistry, chemical equilibrium, oxidation-reduction reactions, kinetics, thermodynamics, quantum theory, nuclear chemistry, organic chemistry, and biochemistry. Lab exercises concomitant with these topics. (three 65-min lect, 180 min lab)

### **CHEM 2301. Organic Chemistry I.** (SCI; 4 cr; prereq 1102; fall, every year)

Introduction to the structure and reactivity of organic molecules; nomenclature and functional groups; stereochemistry; mechanisms of substitution and elimination pathways; physical organic chemistry; introduction to synthetic strategy; fundamentals of spectroscopic techniques.

### **CHEM 2302. Organic Chemistry II.** (SCI; 4 cr; =[CHEM 2304]; prereq C or better in 2301, coreq 2321 or # for chem majors; spring, every year)

Continuation of topics from Chem 2301; spectroscopy; chemistry of polyenes, aromatic systems, and amines; enol and enolate chemistry; free-radical chemistry; retrosynthetic analysis; special topics.

### **CHEM 2304. Organic Chemistry II with a Biological Emphasis.** (SCI; 4 cr; =[CHEM 2302]; prereq C or better in 2301, Biol 2111 or #; spring, offered periodically)

Continuation of topics from Chem 2301, with an emphasis on compounds and reactions of biological interest. Topics include spectroscopy, structure and reactivity of aromatic compounds, phosphoryl and acyl group transfer, nucleophilic carbonyl addition, reactions involving enolate and enamine intermediates, coenzyme chemistry, electrophilic addition, beta elimination, oxidation and reduction of organic compounds, and reactions involving free radical intermediates.

### **CHEM 3101. Analytical Chemistry.** (SCI-L; 4 cr; prereq 1102; fall, every year)

The application of chemical equilibria to chemical analysis with emphasis on the fundamental quantitative aspects of analytical chemistry. Acid-base, oxidation-reduction, and complexometric titrations, introduction to electrochemical and spectrophotometric analyses and separations. (3 hrs lect, 3 hrs lab)

### **CHEM 3301. The Chemistry of Sustainable Energy.** (SCI; 4 cr; =[ESCI 3301]; prereq 2302 or 2304 or #; fall, even years)

Same as ESCI 3301. The fundamental chemical concepts underlying energy sources. Topics include: energy basics, fossil fuels, "sustainable" energy sources, biomass, solar voltaics, hydrogen fuel cells, and nuclear energy.

### **CHEM 3401. Polymer Chemistry and the Environment.** (SCI; 4 cr; =[ESCI 3401]; prereq 2302 or 2304 or #; spring, even years)

Same as ESCI 3401. Introduction to many traditional topics in polymer chemistry including those with a connection to elements of the environment and environmental science such as the preparation of polymers from renewable feedstocks, polymers in renewable energy, green syntheses of polymers, and environmental impacts of polymers.

### **CHEM 3501. Physical Chemistry I.** (SCI; 4 cr; prereq 1102, Phys 1101, Math 1102 or #; fall, every year)

The gas state. Classical thermodynamics. Phase, chemical and heterogeneous equilibria. Chemical kinetics. Kinetic theory of gases. Transport.

**ECON 1111. Principles of Microeconomics.** (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)  
Study of scarce resource allocation in a market economy. Supply and demand, consumer theory, theory of the firm, market structure, pricing of factors of production, income distribution and the role of government.

**ECON 3007. Environmental and Natural Resource Economics I.** (ENVT; 2 cr; prereq 1111 or #; fall, spring, offered periodically)  
An overview of "brown" pollution and "green" sustainability issues in environmental and natural resource economics. Emphasis on the role of market failures in causing environmental problems and on the design of market mechanisms and incentive regulations to solve those problems. Analysis of current federal policy in the areas of water and air pollution.

**ECON 3008. Environmental and Natural Resource Economics II.** (ENVT; 2 cr; prereq 3007 or #; fall, spring, offered periodically)  
The economic analysis of sustainability, focusing on market designs to discourage over-exploitation of both renewable and exhaustible natural resources. Topics include markets for water, fisheries, and energy.

**ENST 1101. Environmental Problems and Policy.** (ENVT; 4 cr; fall, spring, every year)  
An introduction to the ways in which state, national, and international political systems deal with environmental issues and goals. The development of environmental governance, the regulatory and economic tools of environmental policy, and the impact of institutions, culture, social movements, and historical development.

**ENST 2101. Environmental Biology.** (SCI-L; 4 cr; credit will not be granted if credit has been received for Biol 2101; fall, every year)  
Introduction to concepts in biodiversity, evolution, and ecology. Includes basic chemistry and concepts from cell biology, molecular biology, and genetics. A one-course gateway into upper division Biology courses normally requiring the Biol 1111-2101 sequence. (two 65-min lectures, one 180-min lab)

**ESCI 1131. Renewable Energy With Biomass Gasification.** (SCI-L; 3 cr; prereq Math 0901 or placement beyond Math 0901 using ACT/placement exam or instr consent; summer, every year)  
Principles of biomass gasification with a focus on chemical, biological, and economic considerations of biomass energy production. Features hands-on training in chemistry and biomass with classroom and lab activities.

**ESCI 2201. Field Experience in Environmental Challenges of the Italian Alps.** (ENVT; 4 cr; summer, odd years)  
Study of the impact of geologic processes such as tectonism, mass movement, and flooding; understanding climate change through the observation of vegetation changes and glacier fluctuations; soil and water resources and the archaeological record of the nature of human settlements in the Alps.

**ESCI 3111. Evolution of the Minnesota Prairie.** (SCI-L; 4 cr; prereq Geol 1101 or EnSt 2101 or #; fall, odd years)  
Interpretation of the geologic, geochemical, climatologic, and paleontological records of western Minnesota to reconstruct the origin and history of the landscape, flora, and fauna during the last 15,000 years. Topics include: climate, deglaciation, large lakes, vegetation changes, late Pleistocene mammals, peopling of the upper Midwest, and extraterrestrial impact events in the upper Midwest. (3 hrs lect, 3 hrs lab, and field trip)

**ESCI 3196. Environmental Science Field Camp.** (SCI; 2-4 cr ; prereq jr status; fall, spring, summer, every year)  
An educational experience in a field or internship setting focusing on identification and solution of environmental science problems in an environmental field, including environmental geology, hydrology, environmental chemistry or environmental biology. A course syllabus or written plan of work must be approved by the Environmental Science Advisory Committee before registration.

**ESCI 3301. The Chemistry of Sustainable Energy.** (SCI; 4 cr; =[CHEM 3301]; prereq Chem 2302 or #; fall, even years)  
Same as Chem 3301. The fundamental chemical concepts underlying energy sources. Topics include: energy basics, fossil fuels, "sustainable" energy sources, biomass, solar voltaics, hydrogen fuel cells, and nuclear energy.

**ESCI 3401. Polymer Chemistry and the Environment.** (SCI; 4 cr; =[CHEM 3401]; prereq Chem 2302 or 2304 or #; spring, even years)  
Same as Chem 3401. Introduction to many traditional topics in polymer chemistry including those with a connection to elements of the environment and environmental science such as the preparation of polymers from renewable feedstocks, polymers in renewable energy, green syntheses of polymers, and environmental impacts of polymers.

**ESCI 4901. Environmental Science Senior Seminar I.** (1 cr; A-F only; prereq #; fall, every year)  
Capstone experience in environmental science. Identification and selection of individual research topics and related bibliographic resources; development of skills in the reading of environmental science literature (assessing data, recognizing gaps in the research findings, identifying problems in research conclusions). Discussion of selected topics of environmental interest.

**ESCI 4902. Environmental Science Senior Seminar II.** (1 cr; A-F only; prereq 4901, #; spring, every year)  
Capstone experience in environmental science. Completion of research, assessment of information or data, and formulation of conclusions on the research topic selected. Presentations of research projects.  
Law of Sines; the Law of Cosines.

**GEOL 1101. Physical Geology.** (SCI-L; 4 cr; fall, spring, every year)  
Introduction to the materials that make up the Earth and the structures, surface features, and geologic processes involved in its origin and development. Lab work includes study of the major constituents of the Earth's crust, including the important rocks and minerals; study of surface and geologic features using aerial photographs, topographic maps, and satellite imagery. (3 hrs lect, 3 hrs lab)

**GEOL 2001. Natural and Unnatural Geologic Hazards.** (ENVT; 4 cr; spring, offered periodically)  
Examination of the more significant interactions between humans and geologic environments and processes. Earthquake and volcanic hazards, river flooding, mass movements and slope stability, coastal hazards, and water resources and pollution. Lectures and problems sets emphasize the quantitative approaches used to determine the likelihood and frequency of natural hazards, assess associated risks, and mitigate damage.

**GEOL 2121. Sedimentology and Stratigraphy.** (SCI-L; 4 cr; prereq 2101; fall, even years)  
Processes of sedimentation, including origin, transportation, and deposition of sediments; interpretation of sedimentary environments. Principles of stratigraphy and their applications. Lab work includes sedimentary particle analysis; stratigraphic sections; and interpretation of ancient sedimentary environments based on stratified sequences of sedimentary rock. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 2131. Geomorphology.** (SCI; 4 cr; prereq 1101; fall, even years)  
Study of the Earth's surface and surficial processes; weathering, erosion, and deposition, and the resulting landforms and products; the history of the study of landforms in the United States. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 2141. Glacial and Quaternary Geology.** (SCI; 4 cr; prereq 1101; spring, odd years)  
Glaciers, glaciology, glacial deposition, glacial erosion; climatic change and the growth and advance of ice sheets; effect of glaciations on flora and fauna. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 2161. GIS and Remote Sensing.** (SCI; 4 cr; prereq 1101 or Biol 1101 or Biol 1111 or #; spring, every year)  
Introduction to design, development, and application of Geographic Information Systems (GIS); overview of acquisition and utility of satellite data and imagery; emphasis on applications in Earth and environmental sciences; lab component focuses on practical aspects of GIS development and use and involves original semester projects designed and implemented by individual students.

**GEOL 3111. Introduction to Paleontology.** (SCI-L; 4 cr; prereq 2151 or Biol 2101 or EnSt 2101 or #; fall, even years)  
An introduction to the study of the evolutionary history of life on earth as revealed in the fossil and geologic record. Laboratory focuses on study of the classification, morphology, and paleoecology of invertebrate fossils. (two 65-min lect, one 3-hr lab, and weekend collecting trip required)

**GEOL 3501. Hydrology.** (SCI; 4 cr; prereq Math 1101 or #; fall, every year)  
An examination of the hydrological cycle; evapotranspiration and precipitation; processes of infiltration; rainfall-runoff relationships and the generation of overland flow; response of the drainage basin to storm events; flood-frequency analysis; elements of groundwater flow and evaluation of aquifer characteristics; water quality, contamination, and contaminant transport. (4 hrs lect)

**GEOL 3502. Groundwater.** (ENVT; 4 cr; prereq 1101 or #; spring, odd years)  
The origin, occurrence, and availability of groundwater, aquifer geology and groundwater resources, chemical character of groundwater and

groundwater pollution, groundwater wells and well design, and groundwater as a geologic agent. (3 hrs lect, 3 hrs lab and field trips)

**MATH 1021. Survey of Calculus.** (M/SR; 4 cr; prereq 1012 or placement; credit will not be granted for Math 1021 if a grade of C–or higher has previously been received for Math 1101; spring, every year)  
Short course for students in social sciences, biological sciences, and other areas requiring a minimal amount of calculus. Topics include basic concepts of functions, derivatives and integrals, exponential and logarithmic functions, maxima and minima, partial derivatives; applications.

**MATH 1101. Calculus I.** (M/SR; 5 cr; prereq 1012, 1013 or placement; fall, spring, every year)

Limits and continuity; the concepts, properties, and some techniques of differentiation, antidifferentiation, and definite integration and their connection by the Fundamental Theorem. Partial differentiation. Some applications. Students learn the basics of a computer algebra system.

**PHYS 1091. Principles of Physics I.** (SCI-L; 5 cr; prereq high school higher algebra; fall, every year)

Introduction to physics without the use of calculus. Vectors, kinematics, Newton's laws of motion, work and energy, momentum, torque, fluids, thermal physics, laws of thermodynamics, oscillations and waves. (4 hrs lect, 2 hrs lab)

**PHYS 1101. General Physics I.** (SCI-L; 5 cr; prereq Math 1101 or #; spring, every year)

Vectors, kinematics, laws of motion, circular motion, work-energy theorem, conservation principles, rotational motion, gravitation, simple harmonic oscillations, wave phenomena, fluid mechanics, thermal properties of matter, kinetic theory, laws of thermodynamics. (4 hrs lect and rec, 2 hrs lab)

**PHYS 2301. Atmospheric Physics.** (ENVT; 4 cr; prereq 1092 or 1102, Math 1102; fall, odd years)

Introduction to atmospheric physics with an emphasis on thermodynamics. Atmospheric thermodynamics including gas laws, phase transitions, laws of thermodynamics, two–component systems, atmospheric stability; radiative transfer including atmospheric optics and remote sensing; some aspects of atmospheric chemistry such as aerosols, chemical cycles, traces gases; cloud microphysics including nucleation and growth; and atmospheric dynamics including equations of motion for fluid flow; applications to weather systems. (4 hrs lect)

**STAT 1601. Introduction to Statistics.** (M/ SR; 4 cr; prereq high school higher algebra; fall, spring, every year)

Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

**STAT 2601. Statistical Methods.** (M/SR; 4 cr; prereq Math 1101 or Math 1021; fall, every year)

Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, nonparametric statistics, statistical quality control, use of statistical computer packages.

**STAT 4601. Biostatistics.** (4 cr; prereq 1601 or 2601 or 2611 or #; spring, offered periodically)

Design and analysis of biological studies: biological assays, case-control studies, randomized clinical trials, factorial designs, repeated measures designs, observational studies, and infectious disease data. Analysis of survival data: basic concepts in survival analysis, group comparisons, and Cox regression model. Use of statistical computer packages.

## Environmental Studies (ENST)

### *Interdisciplinary Studies—Academic Affairs*

This is an interdisciplinary major under the authority of the vice chancellor for academic affairs and dean. The program is administered by the environmental studies program coordinator.

The environmental studies major is designed to serve those interested in a broad knowledge of the natural environment and the

role of humans in it. Students acquire a foundation of knowledge in economics, policy, science, humanities, and statistics. Carefully chosen electives, a required practical internship or research experience, and a capstone seminar provide depth of experience and help students prepare for graduate and professional programs, as well as for careers in education, government service, and the private sector.

## Environmental Studies Major

Requirements for the major include successful completion of two elements:

Element 1: The Environmental Studies Core

Element 2: The Environmental Studies Elective Block

Selection of electives must be intentional and done in close consultation with an environmental studies adviser. Students must submit an elective plan (preferably by the end of sophomore year), to be approved by the environmental studies program coordinator. Elective plans must be designed to ensure that there is sufficient depth of coverage in the chosen ENST electives. For many students, a second major (or minor) in a closely related discipline is desirable. Electives often can be selected in such a way that they also count toward the second major. Elective courses, other than those listed below, may be appropriate to add depth and provide more theoretical context for the environmentally focused coursework. Approval of alternative electives requires written consent of the course instructor and the program coordinator.

No grades below C–are allowed. Courses may not be taken S–N, unless offered S–N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Element 1: The Environmental Studies Core

Students must successfully complete each of the following eight courses in order to satisfy this element of the major.

ECON 1111–Principles of Microeconomics [SS] (4 cr)

ENGL 2106–Topics in Writing: The Environmental Imagination:

Reading and Writing about the Natural World [ENVT] (4 cr)

or PHIL 2114–Environmental Ethics [ENVT] (4 cr)

ENST 1101–Environmental Problems and Policy [ENVT] (4 cr)

ENST 2101–Environmental Biology [SCI–L] (4 cr)

or BIOL 1111–Fundamentals of Genetics, Evolution, and Development [SCI] (3 cr)

BIOL 2101–Evolution of Biodiversity [SCI–L] (4 cr)

ENST 4901–Senior Capstone Experience (4 cr)

ENST 3988–Environmental Studies Pre-Internship Seminar (1 cr)

ENST 3989–Environmental Studies Post-Internship Seminar (1 cr)

GEOL 1101–Physical Geology [SCI–L] (4 cr)

STAT 1601–Introduction to Statistics [M/SR] (4 cr)

or STAT 2601–Statistical Methods [M/SR] (4 cr)

### Element 2: Environmental Studies Elective Block

Students must successfully complete at least 24 credits from the electives listed below, subject to the following restrictions:

1. Courses used to satisfy this element are exclusive of any used to complete the Core element.
2. At least 16 credits must come from the Upper Division Electives Block.
3. At least 4 credits of the Upper Division Electives must come from Category A.
4. At least 4 credits of the Upper Division Electives must come from Category B.

### Lower Division Electives

Take at most 8 credits from the following:

ANTH 2101–Biological Anthropology [SCI–L] (5 cr)

ANTH 2103–Archaeology [SS] (4 cr)

CHEM 1001–Chemistry for the Curious Citizen: The Role of

Chemistry in the Environment and Everyday Life [SCI–L] (4 cr)

CHEM 1101–General Chemistry I [SCI–L] (5 cr)

CHEM 1102–General Chemistry II [SCI–L] (5 cr)

ENGL 2106—Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World [ENVT] (4 cr)  
 ENGL 2173—The Nature Essay: Writing and Reading Creative Non-fiction about the Natural World [ENVT] (4 cr)  
 GEOL 2001—Natural and Unnatural Geologic Hazards [ENVT] (4 cr)  
 HIST 1812—FIRE!: An introductory Seminar to American Environmental History [IC] (4 cr)  
 HIST 2451—The American West [HIST] (4 cr)  
 PHIL 2114—Environmental Ethics [ENVT] (4 cr)  
 PHYS 2301—Atmospheric Physics [ENVT] (4 cr)  
 POL 1201—American Government and Politics [E/CR] (4 cr)  
 SOC 1813—Political Economy of "Natural" Disaster [IC] (2 cr)  
 SOC 1814—Water Unites, Water Divides: Sharing Water in the 21st Century [IC] (2 cr)  
 ENST 1201—Mapping the Environment [ENVT] (4 cr)  
 or GEOL 2161—GIS and Remote Sensing [SCI] (4 cr)

### Upper Division Elective Courses

Take 16 or more credits from the following:

#### Category A: Science and Mathematics Electives

Take 4 or more credits from the following:

BIOL 3131—Ecology [SCI-L] (4 cr)  
 BIOL 4071—Flora of Minnesota (4 cr)  
 BIOL 4131—Vertebrate Natural History (4 cr)  
 BIOL 4151—Entomology (4 cr)  
 BIOL 4172—Plant Systematics (4 cr)  
 BIOL 4191—Freshwater Biology (4 cr)  
 BIOL 4332—Ecology of Agriculture and Forestry [ENVT] (4 cr)  
 BIOL 4333—Biogeochemistry and Global Change (4 cr)  
 BIOL 4351—Conservation Biology (4 cr)  
 CHEM 3101—Analytical Chemistry [SCI-L] (4 cr)  
 CHEM 3301—The Chemistry of Sustainable Energy [SCI] (4 cr)  
 ESCI 3301—The Chemistry of Sustainable Energy [SCI] (4 cr)  
 GEOL 3501—Hydrology [SCI] (4 cr)

#### Category B: Social Science Electives

Take 4 or more credits from the following:

ANTH 3204—Culture, Food, and Agriculture [ENVT] (4 cr)  
 ANTH 3206—Ecological Anthropology [ENVT] (4 cr)  
 ECON 3007—Environmental and Natural Resource Economics I [ENVT] (2 cr)  
 ECON 3008—Environmental and Natural Resource Economics II [ENVT] (2 cr)  
 ENST 3001—Water Resources Policy [ENVT] (4 cr)  
 ENST 3101—Industrial Ecology (4 cr)  
 GEOG 3501—Geographic Information Systems [ENVT] (4 cr)  
 HIST 3361—An Environmental and Geographic History of the United States [ENVT] (4 cr)  
 POL 3272—Making Environmental Public Policy [ENVT] (4 cr)  
 POL 3355—Environmental Political Theory [ENVT] (4 cr)  
 POL 3514—Pyramids and Politics on the Nile [IP] (4 cr)  
 SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)  
 SOC 3131—World Population [ENVT] (4 cr)  
 SOC 3204—Culture, Food, and Agriculture [ENVT] (4 cr)

#### Category C: Humanities Electives

Take 0 or more credits from the following:

ENGL 4012—Research Seminar: Imagining the Earth (4 cr)  
 ENST 3112—Climate Change and Moral Responsibility [ENVT] (4 cr)  
 ENST 3201—Environmental Justice [E/CR] (4 cr)

## Environmental Studies Course Descriptions

**ANTH 2101. Biological Anthropology.** (SCI-L; 5 cr; A-F only; spring, every year)

What is human nature, and how did we get this way? The class covers evolutionary theory, modern human biodiversity, our primate relatives, and human evolution. Includes a 90-minute lab session.

**ANTH 2103. Archaeology.** (SS; 4 cr; fall, every year)

Survey of prehistoric and early historic cultures from around the world. Covers the development of hunting and gathering societies, origins of

agriculture, and growth of urbanization and state-level societies. (two 65-minute lectures, one 120-minute lab session)

**ANTH 3204. Culture, Food, and Agriculture.** (ENVT; 4 cr; =[SOC 3204]; prereq 1111 or Soc 1101 or #; spring, every year)

Same as Soc 3204. Examines the globalization of food systems utilizing a political ecology perspective to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.

**ANTH 3206. Ecological Anthropology.** (ENVT; 4 cr; prereq 1111 or 2101 or 2103; fall, every year)

Exploration of human ecology and the causes and effects of environmental change, using data from archaeology, biological anthropology, and cultural anthropology. Emphasis on understanding the social and economic context of human adaptations to the environment. Examination of cultures worldwide and through time that have (or have failed to) live sustainably.

**BIOL 1111. Fundamentals of Genetics, Evolution, and Development.**

(SCI; 3 cr; prereq biol major/minor or chem major or any health sciences preprofessional program or EEd or SeEd major with middle school science specialties or #; fall, spring, every year)

Introduction to scientific methods and the history of biology, with an emphasis on mechanisms of inheritance, development, and descent with modification. Overview of pre-Darwinian scientific thought; the theory of evolution; a qualitative introduction to genetics and molecular biology; and a summary of developmental biology. (two 75-min lect)

**BIOL 2101. Evolution of Biodiversity.** (SCI-L; 4 cr; prereq 1101 or 1111 or #; spring, every year)

Analysis of evolutionary trends using historical and contemporary evidence. Principles of classification and phylogenetic reconstruction. Includes laboratory survey of the major groups of organisms. (two 65-min lect, one 180-min lab)

**BIOL 3131. Ecology.** (SCI-L; 4 cr; prereq Biol 2101 or EnSt 2101, Stat 1601 or 2601, or #; fall, every year)

Basic principles and models of population biology, community structure and function, and ecosystem dynamics. Lab exercises emphasize field work, techniques for characterizing local plant and animal communities, and experimental investigation of topics such as competition and behavioral ecology. (two 65-min lect, one 180-min lab and field study; weekend field trip required)

**BIOL 4071. Flora of Minnesota.** (4 cr; prereq Biol 2101; summer, offered periodically)

Identification, ecology, and conservation of vascular plants found in Minnesota. Labs and field trips emphasize plant identification and anatomy.

**BIOL 4131. Vertebrate Natural History.** (4 cr; prereq Biol 2101 or EnSt 2101 or #; spring, odd years)

Survey of vertebrates, including their evolution, systematics, and ecological relationships. (two 65-min lect, one 180-min lab or field study)

**BIOL 4151. Entomology.** (4 cr; prereq Biol 2101 or EnSt 2101 or #; fall, even years)

Structure, life histories, habits, and classification of common families of insects, including their economic significance. (two 65-min lect, 180-min lab)

**BIOL 4172. Plant Systematics.** (4 cr; prereq 2101 or EnSt 2101 or #; spring, odd years)

Survey of vascular plant taxa, with an emphasis on the flowering plant families and their evolutionary relationships. Lab emphasizes use of keys for identification of Midwestern plant families and genera. (two 65-min lect, 180-min lab)

**BIOL 4191. Freshwater Biology.** (4 cr; prereq Biol 2101 or EnSt 2101, 2111 and prereq or coreq Stat 1601 or 2601 or #; fall, odd years)

Structure, function, and biota of freshwater ecosystems, including lakes, streams, and wetlands. Lab emphasizes independent research and field study in local habitats. (two 65-min lect, one 180-min lab; all day field trip required)

**BIOL 4332. Ecology of Agriculture and Forestry.** (ENVT; 4 cr; prereq 3131 or #; spring, even years)

Global and regional aspects of agriculture, forestry, and biofuel production in the context of community and ecosystem ecology. Nutrient cycling, carbon management, biodiversity, and the ecological challenges of feeding and providing energy to 9-12 billion people in the face of global



climate change. Emphasis on analysis of primary literature. Short local field trips required.

**BIOL 4333. Biogeochemistry and Global Change.** (4 cr; prereq 3131 or #; spring, odd years)

Cycling of elements vital to life, particularly, nitrogen (N), phosphorus (P), and carbon (C). Focus on understanding the feedback between physical and ecological processes and the biologically driven coupling of nutrient cycles. Analysis of humans as drivers of change in the biogeochemistry of ecosystems. Heavy emphasis on current primary literature.

**BIOL 4351. Conservation Biology.** (4 cr; prereq Biol 2101 or EnSt 2101, coreq or prereq Biol 3131, Biol 3700 or #; fall, odd years)

Application of demographic and genetic models to protect biodiversity, including planning for uncertainty. Population viability, inbreeding depression, contemporary evolution, design and management of reserves, and invasive species. Lab exercises include field trips and computer modeling of endangered species. (two 65-min lect, one 180-min lab)

**CHEM 1001. Chemistry for the Curious Citizen: The Role of Chemistry in the Environment and Everyday Life.** (SCI-L; 4 cr; =[CHEM 1801]; may not count toward chem major or minor; summer, offered periodically)

The central nature and relevance of chemistry to the environment and everyday life. Air quality, the ozone layer, global warming, energy resources, acid rain, and nutrition. Discussion and debate of current events related to these topics. Select readings on significant historical chemical discoveries in these areas that still resonate today. Basic chemistry lab principles and techniques. This course is intended for non-science majors.

**CHEM 1102. General Chemistry II.** (SCI-L; 5 cr; prereq 1101; spring, every year)

Continuation of Chem 1101. Chemical bonding, states of matter, solutions, acid-base chemistry, chemical equilibrium, oxidation-reduction reactions, kinetics, thermodynamics, quantum theory, nuclear chemistry, organic chemistry, and biochemistry. Lab exercises concomitant with these topics. (three 65-min lect, 180 min lab)

**CHEM 1101. General Chemistry I.** (SCI-L; 5 cr; prereq Math 0901 or placement beyond Math 0901 using ACT/placement exam score; fall, every year)

Scientific method, measurements, nomenclature, stoichiometry, atomic and molecular structure, thermochemistry, chemical periodicity, introduction to chemical bonding, and properties of common elements and ions. Development of scientific reasoning and problem-solving skills. Laboratory exercises concomitant with these topics. (three 65-min lect, 180 min lab)

**CHEM 3101. Analytical Chemistry.** (SCI-L; 4 cr; prereq 1102; fall, every year)

The application of chemical equilibria to chemical analysis with emphasis on the fundamental quantitative aspects of analytical chemistry. Acid-base, oxidation-reduction, and complexometric titrations, introduction to electrochemical and spectrophotometric analyses and separations. (3 hrs lect, 3 hrs lab)

**CHEM 3301. The Chemistry of Sustainable Energy.** (SCI; 4 cr; =[ESCI 3301]; prereq 2302 or 2304 or #; fall, even years)

Same as ESci 3301. The fundamental chemical concepts underlying energy sources. Topics include: energy basics, fossil fuels, "sustainable" energy sources, biomass, solar voltaics, hydrogen fuel cells, and nuclear energy.

**ECON 1111. Principles of Microeconomics.** (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Study of scarce resource allocation in a market economy. Supply and demand, consumer theory, theory of the firm, market structure, pricing of factors of production, income distribution and the role of government.

**ECON 3007. Environmental and Natural Resource Economics I.** (ENVT; 2 cr; prereq 1111 or #; fall, spring, offered periodically)

An overview of "brown" pollution and "green" sustainability issues in environmental and natural resource economics. Emphasis on the role of market failures in causing environmental problems and on the design of market mechanisms and incentive regulations to solve those problems. Analysis of current federal policy in the areas of water and air pollution.

**ECON 3008. Environmental and Natural Resource Economics II.** (ENVT; 2 cr; prereq 3007 or #; fall, spring, offered periodically)

The economic analysis of sustainability, focusing on market designs to discourage over-exploitation of both renewable and exhaustible natural resources. Topics include markets for water, fisheries, and energy.

**ENGL 2106. Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World.** (ENVT; 4 cr; prereq 1601 (or 1011) or equiv; fall, spring, offered periodically)

Writing about the environment. Students learn to use the rich possibilities of language to express their responses to nature and convey to others the importance of close contact with the natural world. Readings in poetry and prose, discussion of technique, and experimentation with a variety of styles and literary forms.

**ENGL 2173. The Nature Essay: Writing and Reading Creative Non-fiction about the Natural World.** (ENVT; 4 cr; prereq 1601; spring, offered periodically)

Students write creative non-fiction centered on the natural world and read the work of noted essayists in the field such as Henry David Thoreau, Gretel Ehrlich, Scott Russell Sanders, Kathleen Dean Moore, and Terry Tempest Williams.

**ENGL 4012. Research Seminar: Imagining the Earth.** (4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)

Study of imaginative writing (poetry and prose) about the earth, and an examination of the ways that language transforms or shapes our perceptions of the natural world. In addition to the primary literary works, students read selections about our understanding of the natural world from science, philosophy, and ecocriticism.

**ENST 1101. Environmental Problems and Policy.** (ENVT; 4 cr; fall, spring, every year)

An introduction to the ways in which state, national, and international political systems deal with environmental issues and goals. The development of environmental governance, the regulatory and economic tools of environmental policy, and the impact of institutions, culture, social movements, and historical development.

**ENST 1201. Mapping the Environment.** (ENVT; 4 cr; no elective cr for EnSt majors if credit has been received for Geol 2161; summer, offered periodically)

An intense immersion into the world of geographic information systems (GIS), with an emphasis on providing a foundation upon which future coursework and projects can be built. The first half of the course focuses on basic skills and functions; the second half is devoted to an environment-related mapping project.

**ENST 2101. Environmental Biology.** (SCI-L; 4 cr; credit will not be granted if credit has been received for Biol 2101; fall, every year)

Introduction to concepts in biodiversity, evolution, and ecology. Includes basic chemistry and concepts from cell biology, molecular biology, and genetics. A one-course gateway into upper division Biology courses normally requiring the Biol 1111-2101 sequence. (two 65-min lectures, one 180-min lab)

**ENST 3001. Water Resources Policy.** (ENVT; 4 cr; prereq 1101 or Pol 1201 or Pol 1401 or #; fall, odd years)

An examination of fundamental contemporary water resource challenges. Units on water quality (e.g., drinking water) and quantity (e.g., irrigated agriculture) encourage critical evaluation of local, national, and international water resources policy in the contexts of environmental quality, human health, and technology. (two 100 min discussions)

**ENST 3101. Industrial Ecology.** (4 cr; prereq 1101, 2101, Econ 1111, Geol 1101, Stat 1601, or #; no credit for students who have received cr for EnSt 4101; fall, even years)

Systems thinking in the context of industrial/ environmental issues. Methods or frameworks including life cycle analysis and design for disassembly, guide an examination of product design, material choice, and flows of energy and resources into, through, and from industrial cycles.

**ENST 3112. Climate Change and Moral Responsibility.** (ENVT; 4 cr; prereq 4 cr of EnSt or #; spring, every year)

Considers the moral responsibilities that citizens have regarding climate change. Includes: 1) tours and discussion of local green infrastructure; 2) panel discussions by professionals and practitioners from the community who will share their expertise; and 3) discussion of the most recent work on climate ethics.

**ENST 3201. Environmental Justice.** (E/CR; 4 cr; prereq 4 cr of EnSt or #; fall, offered periodically)

Environmental justice has shifted the way that scholars, activists, and policy makers understand and address environmental problems. Core environmental concerns such as pollution and climate change are now also understood to be social justice problems. Considers development of the environmental justice movement and key contemporary environmental justice problems.

**ENST 3988. Environmental Studies Pre–Internship Seminar.** (1 cr; S-N only; prereq 1101; fall, every year)

Preparation for the environmental studies internship, including attending and writing reflections on presentations by post-internship students, and developing ideas and opportunities for the ENST internship. Students should enroll in this course in fall of sophomore or junior year prior to completing the ENST internship.

**ENST 3989. Environmental Studies Post–Internship Seminar.** (1 cr; A-F only; prereq 3988 or #; fall, every year)

Culmination of the environmental studies internship. Includes preparing a final paper and delivering a public presentation on the internship experience. Assessment is based on the quality of the final products and on class participation.

**ENST 3996. Internship/Field Experience in Environmental Studies.** (2-4 cr; S-N only; prereq Jr status or instr consent; fall, spring, summer, every year)

An educational experience in a work, research, and/or field setting that provides practical application of the student's theoretical classroom learning experiences. A written plan of work must be approved by the Environmental Studies Internship Coordinator before registration.

**ENST 4901. Senior Capstone Experience.** (4 cr; A-F only; prereq 3989 or 3996, sr status or #; spring, every year)

Students engage in an individual and/or group problem solving project on a multidisciplinary topic germane to Environmental Studies and present results in a public forum.

**ESCI 3301. The Chemistry of Sustainable Energy.** (SCI; 4 cr; =[CHEM 3301]; prereq Chem 2302 or #; fall, even years)

Same as Chem 3301. The fundamental chemical concepts underlying energy sources. Topics include: energy basics, fossil fuels, "sustainable" energy sources, biomass, solar voltaics, hydrogen fuel cells, and nuclear energy.

**GEOG 3501. Geographic Information Systems.** (ENVT; 4 cr; prereq any 1xxx course in social or natural sciences; fall, spring, offered periodically)

The theory and practice of Geographic Information Systems. Topics include data models, spatial statistics, and cartographic modeling. Special emphasis on social and environmental applications. (two 65-minute lect, one 120-minute lab session per week)

**GEOL 1101. Physical Geology.** (SCI-L; 4 cr; fall, spring, every year)

Introduction to the materials that make up the Earth and the structures, surface features, and geologic processes involved in its origin and development. Lab work includes study of the major constituents of the Earth's crust, including the important rocks and minerals; study of surface and geologic features using aerial photographs, topographic maps, and satellite imagery. (3 hrs lect, 3 hrs lab)

**GEOL 2001. Natural and Unnatural Geologic Hazards.** (ENVT; 4 cr; spring, offered periodically)

Examination of the more significant interactions between humans and geologic environments and processes. Earthquake and volcanic hazards, river flooding, mass movements and slope stability, coastal hazards, and water resources and pollution. Lectures and problems sets emphasize the quantitative approaches used to determine the likelihood and frequency of natural hazards, assess associated risks, and mitigate damage.

**GEOL 2161. GIS and Remote Sensing.** (SCI; 4 cr; prereq 1101 or Biol 1101 or Biol 1111 or #; spring, every year)

Introduction to design, development, and application of Geographic Information Systems (GIS); overview of acquisition and utility of satellite data and imagery; emphasis on applications in Earth and environmental sciences; lab component focuses on practical aspects of GIS development and use and involves original semester projects designed and implemented by individual students.

**GEOL 3501. Hydrology.** (SCI; 4 cr; prereq Math 1101 or #; fall, every year)

An examination of the hydrological cycle; evapotranspiration and precipitation; processes of infiltration; rainfall-runoff relationships and the generation of overland flow; response of the drainage basin to storm events; flood–frequency analysis; elements of groundwater flow and evaluation of aquifer characteristics; water quality, contamination, and contaminant transport. (4 hrs lect)

**HIST 1812. FIRE!: An introductory Seminar to American**

**Environmental History.** (1C; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

One of the primary ways in which people have manipulated their environments has been through the burning of fossil fuels. Indigenous

people, for instance, used fire to clear land, to improve soil quality, and to drive game. Coal powered the Industrial Revolution and oil provided the energy necessary for the Automobile Age. The impact of using energy in this way is today obvious. This course is organized around the topic of fire and uses this theme to examine core issues in American Environmental History. Topics might include: American Indian peoples and fire, burning and early agriculture, coal and industrialization, the Age of the Automobile, incineration and the problem of waste, and forest arson as a mode of political protest.

**HIST 2451. The American West.** (HIST; 4 cr; =[HIST 3451]; fall, even years)

Overview of the history of the American West up to the 21st century. While many scholars have argued that the "West" was merely a necessary process of national expansion, others argue that it is a very significant region—the most culturally and ecologically diverse region in the country. Discussion of these major historical interpretations of the American West and examination of how people have understood this vast region as a cultural icon of national identity. Work through various definitions of the West and identify how political issues of the environment, international borderlands, and gender and race relations have significantly influenced the United States for many generations. Through lectures, readings, and discussion, examine Western history chronologically while also covering other major themes including federalism, the mythic West, tourism, ranching and agriculture, urban and suburban areas, film, and religion.

**HIST 3361. An Environmental and Geographic History of the United States.** (ENVT; 4 cr; no credit for students who have received cr for Hist 2361; fall, spring, offered periodically)

A broad examination of how humans interacted with their natural world throughout American history. Combined emphasis on cultural ecology (the study of how various cultural groups shaped the American landscape) with political ecology (the role of the nation's political economy in driving environmental change). Possible topics include: the Columbian Exchange, European and American Indian conflict, Thoreau and the creation of an environmental ethic, the slaughter of the bison as an ecological tragedy, urbanization and environmental racism, conservation as a political movement and the development of environmental policy, eco-feminism, American religion and the environment, the politics of global climate change.

**PHIL 2114. Environmental Ethics.** (ENVT; 4 cr; spring, odd years)

Survey of fundamental theoretical debates in environmental ethics. General moral approaches are canvassed, as are the major positions in environmental ethics: anthropocentrism, sentientism, biocentric individualism, holism. Specific topics include: speciesism, the environmentalism-animal liberation debate, and the predation problem.

**PHYS 2301. Atmospheric Physics.** (ENVT; 4 cr; prereq 1092 or 1102, Math 1102; fall, odd years)

Introduction to atmospheric physics with an emphasis on thermodynamics. Atmospheric thermodynamics including gas laws, phase transitions, laws of thermodynamics, two–component systems, atmospheric stability; radiative transfer including atmospheric optics and remote sensing; some aspects of atmospheric chemistry such as aerosols, chemical cycles, traces gases; cloud microphysics including nucleation and growth; and atmospheric dynamics including equations of motion for fluid flow; applications to weather systems. (4 hrs lect)

**POL 1201. American Government and Politics.** (E/CR; 4 cr; fall, spring, every year)

Analysis of principles, organization, procedures, and powers of government in the United States. The federal system, national constitution, civil and political rights, party system; nature, structure, powers, and procedures of legislative, executive, and judicial departments of the national government.

**POL 3272. Making Environmental Public Policy.** (ENVT; 4 cr; prereq 1101 or 1201 or 1401; spring, even years)

Exploration of the domestic and international politics of environmental and energy policy making. Focus on theoretical frameworks for policy making and political behaviors surrounding development of environmental and energy policies. Includes the applications of political dynamics and principles to specific areas of environmental and energy policy. Emphasis also given to politics of policy implementation.

**POL 3355. Environmental Political Theory.** (ENVT; 4 cr; fall, odd years)

An examination of political understandings of the relationship between humans and the natural environment. Topics include Western and non-Western perspectives on the natural environment, technological optimism and survivalism, the tragedy of the commons, environmental direct action

movements, the environmental justice movement, and theories of green democracy and citizenship. Readings cover a variety of political perspectives and ideologies including neoconservatism, libertarianism, ecoanarchism, ecosocialism, ecofeminism, social ecology, deep ecology, and postmodernism.

**POL 3514. Pyramids and Politics on the Nile.** (IP; 4 cr; prereq #: summer, offered periodically)

Four-week study-abroad course on Egyptian political history with an emphasis on the environmental challenges of the Nile River Valley. Guided excursions, guest speakers, and individual exploration at significant political, historical, and cultural sites in the Cairo area and along the Nile Valley from Aswan to Alexandria.

**SOC 1813. Political Economy of "Natural" Disaster.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Examine the political economy of natural disasters through a survey of events drawn from around the world. Disasters can be viewed from multiple social perspectives (economic, political, ecological, and personal) and each of these carries implicit and explicit political judgments about how the environment should be managed. The following events offer rich documentation (academic and popular media) about the impact of governmental decisions prior to and in the aftermath of each event: famine–South Asian famine of 1770s, earthquake–Haiti 2010, deforestation/erosion–Nepal 1970s, hurricane–Katrina 2005, flood–Johnstown Flood of 1889, tsunami–South Asian tsunami of 2004.

**SOC 1814. Water Unites, Water Divides: Sharing Water in the 21st Century.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

With the effects of climate change and the world's population increasing, demands for water have also intensified. Survey of water conflicts around the world with a view to assess how nations can better manage available water within and across borders.

**SOC 3112. Sociology of the Environment and Social Development.** (ENVT; 4 cr; prereq 1101 or #; fall, odd years)

Introduces students to the sociological study of the environment and social development. Examines the impact of international environmental and development efforts on individuals at the local level. Focuses on grassroots environmental activism and social development work. Explores and discusses power relations and systems of inequality within the context of environmental and social development efforts.

**SOC 3131. World Population.** (ENVT; 4 cr; prereq 1101 or #; fall, every year)

Population theory and demographic method. Dynamics of fertility and mortality as the basis of population forecasting and its policy implications. Emphasis on the tie between Third World demographic trends and population issues in the rest of the world.

**SOC 3204. Culture, Food, and Agriculture.** (ENVT; 4 cr; =[ANTH 3204]; prereq 1101 or Anth 1111 or #; spring, every year)

Same as Anth 3204. Examines the globalization of food systems utilizing a political ecology perspective to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.

**STAT 1601. Introduction to Statistics.** (M/ SR; 4 cr; prereq high school higher algebra; fall, spring, every year)

Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

**STAT 2601. Statistical Methods.** (M/SR; 4 cr; prereq Math 1101 or Math 1021; fall, every year)

Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, nonparametric statistics, statistical quality control, use of statistical computer packages.

## French (FREN)

### *Division of the Humanities*

French is an important language of diplomacy, commerce, and health care and is used in research across the globe and in many disciplines, such as music, art, linguistics, history, law, political science, anthropology, biology, chemistry, mathematics, and philosophy. The French discipline gives students the language and analytic skills necessary to engage intellectually with these interconnected fields in French and to appreciate the cultures of France and Francophone countries throughout the world.

#### **Objectives:**

The French curriculum is designed to ensure that students:

- \*Develop their reading, writing, speaking and listening skills in French;
- \*Refine their cross-cultural and problem-solving skills;
- \*Expand research and career opportunities in a global and interconnected world;
- \*Discover the traditions, literatures, arts, and histories of French-speaking peoples;
- \*Explore the contributions of French-speaking peoples to education, the humanities, social sciences and/or STEM fields;
- \*Engage in research in French;
- \*Prepare for a career serving French-speaking people in the United States and abroad in the sciences, commerce, diplomacy, economic development, healthcare, teaching or community outreach.

## French Major

### **Courses for Admission**

#### **Beginning French**

Beginning French I and II or equivalent previous language experience required to take intermediate French.

#### **Program Requirements**

Students must complete a significant amount of coursework in French at UMM, but are also strongly encouraged to study abroad. In order to count study abroad toward the French major or minor, all students must procure formal approval of coursework from the French Discipline prior to departure. (Typically, no more than 9 credits for one semester abroad or 16 credits for a year abroad may count toward the French major.)

French speaking people have been very influential in many fields. Work with a French faculty member to see how a careful selection of your General Education courses can enhance your knowledge of France and Francophone societies. The French Discipline strongly recommends at least one year of study in another world language.

Up to 4 credits taught in English (such as Fren 1031, 1302, 1303, 1311 or 1312) may be counted towards the French major, provided that students complete written work for the class in French.

No grades below C—may count toward the French major. Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### **Required Courses**

FREN 2001—Intermediate French I [IP] (4 cr)

FREN 2002—Intermediate French II [IP] (4 cr)

FREN 3002—Civilization and Composition: From the Middle Ages to Classicism [HIST] (2 cr)

FREN 3003—Civilization and Composition: France Since the Revolution of 1789 [HIST] (2 cr)

FREN 3004—Civilization and Composition: Colonialism and Francophone Worlds [HIST] (2 cr)

FREN 3011—Introduction to French and Francophone Literature [HUM] (4 cr)

HUM 1305—Career Preparation in World Languages (1 cr)

**Medieval and Early Modern Studies (MEMS)**

These courses fall within the period that encompasses the Middle Ages through French classicism. Students gain familiarity with the history, cultures, and literatures of France from its beginnings in early feudal society through the seventeenth century.

*Take 4 or more credits from the following:*

- FREN 3402—Medieval and Early Modern Studies: Pre-Enlightenment Culture in France (2–4 cr)  
 FREN 3406—Medieval and Early Modern Studies: Emotional Extremes in Medieval and Early Modern Literature (4 cr)  
 FREN 3407—Medieval and Early Modern Studies: The "East" and its Marvels (2–4 cr)  
 FREN 3408—Medieval and Early Modern Studies: Quests, Quails, and Custards—Food in Life and Literature (2–4 cr)  
 FREN 3409—Medieval and Early Modern Studies: Monsters and the Marvelous (2–4 cr)

**Modern Studies (MOS)**

These courses cover a wide range of historical, literary, and cultural moments and movements that have marked France's development since the dawn of the French Enlightenment.

*Take 4 or more credits from the following:*

- FREN 1031—Modern Studies: The Modern Body in France [SS] (4 cr)  
 FREN 1302—French Cinema [IP] (4 cr)  
 FREN 1303—Paris as Text/Image/Sound [IP] (4 cr)  
 FREN 3501—Modern Studies: The Old Regime and New Ideas: The French Enlightenment (4 cr)  
 FREN 3502—Modern Studies: Revolution, Romanticism, Modernity (4 cr)  
 FREN 3503—Modern Studies: Avant-Garde, Existentialism, Experimentation (2–4 cr)  
 FREN 3505—Modern Studies: Immigration and Identity in Modern France (4 cr)

**Francophone Studies (FRS)**

These courses examine the literature, film, history and cultures of French-speaking populations living in Africa, North America, the Caribbean, South America, Europe, and Asia.

*Take 4 or more credits from the following:*

- FREN 1311—Sub-Saharan Francophone Cinema [IP] (4 cr)  
 FREN 1312—Morocco: History, Story, Myth [IP] (4 cr)  
 FREN 3603—Francophone Studies: Contes francophones (2 cr)  
 FREN 3604—Francophone Studies: L'Amérique francophone (4 cr)  
 FREN 3605—Francophone Studies: Le Cinéma du Maghreb (4 cr)  
 FREN 3606—Francophone Studies: Sub-Saharan Francophone Cinema (4 cr)  
 FREN 3607—Francophone Studies: Sex and Gender in Francophone Literature (2 cr)

**French Capstone Project**

The final capstone presentation must be given in French  
 FREN 4902—French Capstone Project (2 cr)

**Elective Courses**

An additional 8 credits of FREN 3xxx or above. Of these elective credits, up to 4 credits may come from FREN 1031, FREN 1302, FREN 1303, FREN 1311, FREN 1312 and up to another 4 credits may come from FREN 2013 and FREN 2014.

Electives can be chosen from the cluster courses or the following:

*Take at most 4 credits from the following:*

- FREN 1031—Modern Studies: The Modern Body in France [SS] (4 cr)  
 FREN 1302—French Cinema [IP] (4 cr)  
 FREN 1303—Paris as Text/Image/Sound [IP] (4 cr)  
 FREN 1311—Sub-Saharan Francophone Cinema [IP] (4 cr)  
 FREN 1312—Morocco: History, Story, Myth [IP] (4 cr)

*Take at most 4 credits from the following:*

- FREN 2013—Explorations: Grammar (1 cr)  
 FREN 2014—Explorations: Cultures (1 cr)

**Advanced Language Studies (ALS)**

These courses analyze the structure and usage of the French language in detail and on an advanced level.

*Take 10 or more credits from the following:*

- FREN 3112—Advanced Language Studies: Introduction to French Phonetics (2–4 cr)  
 FREN 3113—Advanced Language Studies: Theme et Version (2–4 cr)  
 FREN 3114—Advanced Language Studies: Advanced French Grammar (2–4 cr)

**French Minor****Courses for Admission****Beginning French**

Beginning French I and II or equivalent previous language experience required to take intermediate French.

**Minor Requirements**

Students must complete a significant amount of coursework in French at UMM, but are also strongly encouraged to study abroad. In order to count study abroad toward the French major or minor, all students must procure formal approval of coursework from the French Discipline prior to departure. (Typically, no more than 6 credits from study abroad may count towards the French minor.) No courses taught in English may count toward the French minor. No grades below C—may count toward the French minor. Courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

**Required Courses**

- FREN 3002—Civilization and Composition: From the Middle Ages to Classicism [HIST] (2 cr)  
 FREN 3003—Civilization and Composition: France Since the Revolution of 1789 [HIST] (2 cr)  
 FREN 3004—Civilization and Composition: Colonialism and Francophone Worlds [HIST] (2 cr)  
 FREN 3011—Introduction to French and Francophone Literature [HUM] (4 cr)  
 HUM 1305—Career Preparation in World Languages (1 cr)

**Elective Courses**

*Take 16 or more credits from the following: FREN 2xxx, 3xxx.*

Selection of electives must be done in consultation with a French faculty member. Electives should ensure that there is variety and depth in the minor. Of the 16 additional elective credits, up to 2 credits from FREN 2013 and FREN 2014 may count as elective credits. FREN 4902 may count as an elective towards the minor and is strongly recommended to any student planning a career using French skills.

**Teacher Preparation Requirements**

Students seeking teaching licensure in French K–12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Required Proficiency/Placement Examination**—Students who plan to complete courses in the same language they studied in high school must take the proficiency/placement examination and abide by the placement recommendation. If, after an initial exposure to the recommended course, the placement seems inappropriate, students may follow the recommendation of their language instructor as to the proper entry course.

**French Course Descriptions****FREN 1001. Beginning French I.** (4 cr; fall, every year)

An introduction to oral and written French, its basic structure, and to French culture.

**FREN 1002. Beginning French II.** (FL; 4 cr; prereq 1001 or placement or #; spring, every year)

Continuation of 1001.

**FREN 1021. July in Paris I: French Language and Culture in Paris.**

(IP; 4 cr; A-F only; summer, odd years)

Four weeks of intensive beginning French language and culture at the Sorbonne, Paris IV; guided visits to cultural and historical sites. UMM July in Paris course for students with no French experience or less than one semester of college-level French. Does not satisfy FL Gen Ed requirement. See also Fren 1023 and 3060: July in Paris II and III: French Language and Culture in Paris.

**FREN 1023. July in Paris II: French Language and Culture in Paris.**

(FL; 4 cr; A-F only; prereq 1001 or placement; summer, odd years)

Fren 1002 equivalent for the July in Paris Program. Four weeks of intensive beginning French language and culture at the Sorbonne, Paris IV; guided visits to cultural and historical sites. Satisfies UMM language requirement. See also Fren 1021 and 3060: July in Paris I and III: French Language and Culture in Paris

**FREN 1031. Modern Studies: The Modern Body in France.** (SS; 4 cr; prereq (or coreq) 3011 or #; fall, spring, offered periodically)

Beginning with Vesalius, this course examines how the notions of body and mind have been shaped and reshaped in tandem with the rise of the sciences in France, with emphasis on evolving conceptions of ability and disabilities. Taught in English. Meets Modern Studies (MOS) requirement in the French major.

**FREN 1302. French Cinema.** (IP; 4 cr; does not count towards the Fren minor; fall, spring, offered periodically)

The history of filmmaking in France from the Lumiere brothers to the present; introduction to major trends in film theory. All films have English subtitles. Taught in English. Meets Modern Studies (MOS) requirement for the French major.

**FREN 1303. Paris as Text/Image/Sound.** (IP; 4 cr; =[HUM 1303]; prereq #; fall, spring, offered periodically)

Explores how representations of Paris in literature, film, music, and photography have been a key to the construction and the lived experience of the city and how new forms of writing, image-making, and sound production have emerged from the modern metropolis. Texts by Balzac, Baudelaire, Hemingway, Stein, and others. Taught in English, but all written work can be completed in French to count toward the major. Meets Modern Studies requirement in French major.

**FREN 1311. Sub-Saharan Francophone Cinema.** (IP; 4 cr; does not count toward the Fren minor; fall, spring, offered periodically)

Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. All films have English subtitles. Taught in English. Meets Francophone Studies (FRS) requirement for the French major.

**FREN 1312. Morocco: History, Story, Myth.** (IP; 4 cr; A-F only; does not count toward the Fren minor; summer, offered periodically)

Study of the ways that history, myth, and storytelling intertwine to create Moroccan identity and of the different methods of telling stories through orature, literature, weaving, ceramics, and music. Students learn about current concerns and successes in Moroccan society. Taught in English. Meets Francophone Studies (FRS) requirement for the French major.

**FREN 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**FREN 2001. Intermediate French I.** (IP; 4 cr; prereq 1002 or placement or #; fall, every year)

Review of the essential structural patterns of the French language; continued development of oral, aural, reading, and writing skills based on cultural and literary texts appropriate to this level.

**FREN 2002. Intermediate French II.** (IP; 4 cr; prereq 2001 or placement or #; spring, every year)

Review of the essential structural patterns of the French language; continued development of oral, aural, reading, and writing skills based on cultural and literary texts appropriate to this level.

**FREN 2013. Explorations: Grammar.** (1 cr [max 2 cr]; S-N only; prereq 1002 or #; fall, spring, every year)

Meets once weekly for review, practice, and reinforcement of French grammar and syntax. A good option for students whose semester schedule cannot accommodate a more in-depth course in French or whose skills would be strengthened by review and practice of basic concepts.

**FREN 2014. Explorations: Cultures.** (1 cr [max 2 cr]; S-N only; prereq 1002 or #; fall, spring, every year)

An opportunity for integrated practice in the four skills (listening, speaking, reading, writing) through the discussion of various non-academic texts: children's books, movies, music videos, commercials, and news stories from throughout the French-speaking world.

**FREN 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**FREN 3002. Civilization and Composition: From the Middle Ages to Classicism.** (HIST; 2 cr; prereq 2002 or #; fall, spring, every year)

A study of French culture from early feudal systems through the height of the Classical period under the reign of Louis XIV. Study the development of French society while also refining the ability to write academic papers and to engage in academic discussions in French.

**FREN 3003. Civilization and Composition: France Since the Revolution of 1789.** (HIST; 2 cr; prereq 2002 or #; fall, spring, every year)

A study of French culture from the Enlightenment period up to contemporary society. Study the development of the French nation while also refining the ability to write academic papers and to participate in academic discussions in French.

**FREN 3004. Civilization and Composition: Colonialism and Francophone Worlds.** (HIST; 2 cr; prereq 2002 or #; fall, spring, every year)

A study of the history of French colonialism and of the development of la Francophonie as an association of French-speaking countries outside of France.

**FREN 3011. Introduction to French and Francophone Literature.**

(HUM; 4 cr; prereq 4 credits of 3002 or 3003 or 3004 or #; spring, every year)

A survey of literature from France and from across the Francophone world. Study poetry, novels, theater, and film, and develop reading skills and methods of analysis.

**FREN 3060. July in Paris III: French Language and Culture in Paris.**

(IP; 4 cr [max 8 cr]; A-F only; prereq 1002 or equiv; summer, odd years)

Four weeks of intermediate or advanced French-language study at the Sorbonne, Paris IV; guided visits to cultural and historical sites. UMM July in Paris course for students who have had a minimum of one year of college-level French. See also Fren 1021 and Fren 1023: July in Paris I and II: French Language and Culture in Paris.

**FREN 3112. Advanced Language Studies: Introduction to French****Phonetics.** (2-4 cr; prereq 2002 (or concurrent enrollment in 2002) or #; no credit for students who have received cr for Fren 2011; fall, spring, offered periodically)

Training in French pronunciation through general and French phonetics. Students learn the International Phonetic Alphabet and study the correct articulate of French vowels and consonants, as well as other important parts of speech such as liaison, enchantment, and intonation. Meets Advanced Language Studies (ALS) requirement in French major.

**FREN 3113. Advanced Language Studies: Theme et Version.** (2-4 cr; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 4011; spring, odd years)

The art of translation applied to everyday discourse, literary texts, and a number of professional fields: journalism, international business, and political, social, and natural sciences with a particular emphasis on specialized vocabularies and advanced grammar and syntax. Meets Advanced Language Studies (ALS) requirement in French major.

**FREN 3114. Advanced Language Studies: Advanced French****Grammar.** (2-4 cr; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 4012; spring, even years) Refinement of grammar. Students gain a deeper understanding of the functionality of the French language through a study of French grammar and through applied and historical linguistics. Meets Advanced Language Studies (ALS) requirement in French major.**FREN 3402. Medieval and Early Modern Studies: Pre-Enlightenment Culture in France.** (2-4 cr; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 3022; fall, spring, offered periodically)

This course traces the history of French culture from the Middle Ages until the death of Louis XIV in 1715; it examines the geography, language, and institutions of medieval and early modern France through literature. Meets Medieval and Early Modern Studies (MEMS) requirement in French major.

**FREN 3406. Medieval and Early Modern Studies: Emotional Extremes in Medieval and Early Modern Literature.** (4 cr; prereq (or coreq) 3011; spring, offered periodically)

Theories from cultural and religious studies, anthropology, history, psychology, and sociology combine to approach emotional expression in society and in literature. Readings: Durkheim, Freud, Laplanche, Bataille, Chretien's Lancelot, Partonopeus, Le Roman de Troie, troubadour lyric, Aucassin et Nicolette, Legenda Aurea, Saint Augustine, Ovid's Metamorphoses. Meets Medieval and Early Modern Studies (MEMS) requirement in French major.

**FREN 3407. Medieval and Early Modern Studies: The "East" and its Marvels.** (2-4 cr ; prereq 3011; fall, offered periodically)

A Medieval French course introducing cultural and literary aspects of the Middle Ages through marvelous figures and manifestations of the medieval French interpretation of the "East," including attention to exotic forms of clothing and food in romance, crusades, bestiaries, and fabliaux. Students read medieval interpretations of adventure stories such as the Iliad and Aeneid. Meets Medieval and Early Modern Studies (MEMS) requirement in French major.

**FREN 3408. Medieval and Early Modern Studies: Quests, Quails, and Custards—Food in Life and Literature.** (2-4 cr ; prereq (or coreq) 3011 or #; fall, spring, offered periodically)

Spices, game, and chocolate trace the real and imagined movement of the European people in the Middle Ages and Early Modern period in literary and historical sources. Make authentic recipes and read authors, including Marco Polo, from many genres of literature. Meets Medieval and Early Modern Studies (MEMS) requirement in French major.

**FREN 3409. Medieval and Early Modern Studies: Monsters and the Marvelous.** (2-4 cr ; prereq (or coreq) 3011 or #; fall, spring, offered periodically)

The Middle Ages and Early Modern period are introduced through monsters, beasts, and other marvelous figures in genres including romance, hagiography, theatre, bestiaries, and fabliaux. Students analyze gender roles and sexual expression, childhood and adulthood, and animals. Meets Medieval and Early Modern Studies (MEMS) requirement in French major.

**FREN 3501. Modern Studies: The Old Regime and New Ideas: The French Enlightenment.** (4 cr; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 3039; fall, spring, offered periodically)

Explores the absolutism of Louis XIV and the rise of modern secular thinking in the French literature and philosophy of the Enlightenment, with particular attention given to shifting notions of freedom, agency, and one's place within society and relationship to others. Meets Modern Studies (MOS) requirement for the French major.

**FREN 3502. Modern Studies: Revolution, Romanticism, Modernity.** (4 cr; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 3037; fall, spring, offered periodically)

Examines the emergence of Romanticism, Modernity, Realism, and Naturalism in a historical context shaped by the successive revolutions of 1789, 1815, 1830, 1848, and 1870; industrialization; the rise of a middle class; advances in technology and medicine; and the centrality of images and the popular press in daily life in France. Meets Modern Studies (MOS) requirement in French major.

**FREN 3503. Modern Studies: Avant-Garde, Existentialism, Experimentation.** (2-4 cr ; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 3038; fall, spring, offered periodically)

From la belle époque through two world wars and the civil unrest of 1968; from France's efforts to come to terms with its colonial past to its role within the European Union, from Proust to Pennac, this course examines French history, culture and literary movements of the past century to the present day. Meets Modern Studies (MOS) requirement in French major.

**FREN 3505. Modern Studies: Immigration and Identity in Modern France.** (4 cr; prereq (or coreq) 3011 or #; spring, offered periodically)

Examination of the history of immigration in France, with a particular focus on the years following the Algerian War to the present. Study of literary representations of cultural dislocation as written by immigrant minorities in France and of the effects of these narratives on the creation of cultural, social, and national identities within these communities and in France. Discussions of the tensions in France between its relatively new multicultural identity and its traditional identity based on a homogenous set of characteristics.

**FREN 3603. Francophone Studies: Contes francophones.** (2 cr [max 4 cr]; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 3042; fall, spring, offered periodically)

Study of the oral tale in African and Caribbean cultures. Examination of the form of these tales, their thematic structure, and how these tales have been translated into written and/or cinematographic texts. Meets Francophone Studies (FRS) requirement in French major.

**FREN 3604. Francophone Studies: L'Amérique francophone.** (4 cr; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 3044; fall, spring, offered periodically)

Survey of literary texts and movements in Francophone North America, including Quebec and Louisiana, as well as the history of French exploration of the New World. A discussion of the cultural tensions that have threatened and continue to shape Francophone identity in North America. Meets Francophone Studies (FRS) requirement in French major.

**FREN 3605. Francophone Studies: Le Cinéma du Maghreb.** (4 cr; prereq (or coreq) 3011 or #; fall, offered periodically)

A study of Algerian, Tunisian, and Moroccan history and culture as presented through the art of cinema. Examination of films produced in the francophone Maghreb thematically, focusing on topics such as colonialism, gender, Islam, childhood, and immigration. An important goal is to learn to analyze and discuss film academically. Meets Francophone Studies (FRS) requirement in French major.

**FREN 3606. Francophone Studies: Sub-Saharan Francophone Cinema.** (4 cr; prereq (or coreq) 3011 or #; fall, spring, offered periodically)

Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Meets Francophone Studies (FRS) requirement in French major.

**FREN 3607. Francophone Studies: Sex and Gender in Francophone Literature.** (2 cr; prereq 3011 or #; fall, spring, offered periodically)

The study of the representation of women, men and queer identities in Francophone literature. Discussion of models of femininity and masculinity, and how the dominant, dual system of sexuality and gender creates problems for individuals whose identities do not fit the binary. Examination of various models of feminism from Africa and the Caribbean and how those models may differ from American or French models. Meets Francophone Studies (FRS) requirement in French major.

**FREN 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**FREN 4902. French Capstone Project.** (2 cr; prereq a minimum of 16 credits completed in 3xxx electives, #; spring, every year)

Students work in consultation with the course instructor in one of two tracks: they either develop a project they began in another French elective course or they develop a project related to another major. For either track, students undertake a significant research project (in terms of both length and depth) and present their findings in a formal presentation in French.

**FREN 4991. Independent Study in French Abroad.** (IP; 4 cr [max 12 cr]; prereq 2002 or #; 3022 or 3032 or 3041 recommended; fall, spring, offered periodically)

An independent study designed for study abroad and based on the student's research interests in French or Francophone language, culture, history, etc. The project is defined in consultation with a French faculty member before the student leaves the United States. The faculty member guides the project via email.

**FREN 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Gender, Women, and Sexuality Studies (GWSS)

### *Division of the Social Sciences*

This is an interdisciplinary program housed in the Division of the Social Sciences. The program is administered by the Gender, Women, and Sexuality Studies (GWSS) coordinator who is a faculty member of any of the four divisions.

Gender and sexuality are urgent contemporary issues that impact the culture, politics, and economics of American and international societies. Because such issues affect nearly every professional field and avenue of inquiry, GWSS students engage critically with theoretical and practical models from across the disciplines.

**Objectives**—To explore the implications and intersections of gender and sexuality across disciplinary, chronological, and geographical barriers. Through diverse methodologies and critical paradigms, students explore the impact of gender and sexuality in their own lives and in the world around them.

## Gender, Women, and Sexuality Studies Major

Students interested in the major should meet with their adviser before the beginning of their junior year.

Students develop a coherent program of study in consultation with their adviser. In developing an elective plan, students are also strongly encouraged to consult with faculty who teach within the GWSS program.

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### **Required Courses**

**Note:** Some of the courses required for the major carry prerequisites.

- ENGL 2031—Gender in Literature and Culture [HDIV] (4 cr)
- GWSS 1101—Introduction to Gender, Women, and Sexuality Studies [HDIV] (4 cr)
- GWSS 4901—Gender, Women, and Sexuality Studies Capstone (1 cr)
- SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)

### **Elective Requirements**

Students must fill the remaining 27 credits with courses from the following lists. These courses must come from at least three different disciplines. A course not listed below may be applied to the elective requirement with the consent of the instructor and GWSS coordinator. With the approval of the GWSS coordinator, up to 8 credits can be supplied by internship experiences.

### **Primarily Gender, Women, and Sexuality Content**

*Take 19 or more credits from the following:*

- ANTH 2202—Men and Masculinities [SS] (4 cr)
- ANTH 2206—Sex, Marriage, and Family [HDIV] (4 cr)
- ANTH 3602—Women in Latin America [IP] (4 cr)
- ARTH 3281—Women and Art [FA] (4 cr)
- ENGL 3155—20th-Century British Fiction (4 cr)
- ENGL 3332—African American Women Writers [HDIV] (4 cr)
- ENGL 3414—Feminist Theory [HDIV] (4 cr)
- GER 3501—Women's Issues in Contemporary German Culture [IP] (4 cr)
- GWSS 3001—Troubling Genders in African Cinema [HUM] (4 cr)
- GWSS 3414—Feminist Theory [HDIV] (4 cr)
- GWSS 3993—Directed Study (1–5 cr)
- HIST 1402—Gender, Women, and Sexuality in American History [HDIV] (4 cr)
- HIST 2704—Gender, Women, and Sexuality in Medieval Europe [SS] (4 cr)

HIST 2708—Gender, Women, and Sexuality in Modern Europe [IP] (4 cr)

PHIL 2141—Analytic Feminism [HUM] (4 cr)

POL 3303—Feminist Political Theory [SS] (2 cr)

PSY 3051—The Psychology of Women and Gender [HDIV] (4 cr)

PSY 3221—Behavioral Biology of Women [SCI] (4 cr)

PSY 3261—Human Sexuality (4 cr)

SOC 3252—Women in Muslim Society [IP] (4 cr)

SOC 3602—Women in Latin America [IP] (4 cr)

SPAN 3654—Seminar: Sex, Love, and Marriage in Golden Age

Spanish Literature [HUM] (4 cr)

SPAN 3688—Seminar: Literature and Gender in Nineteenth-Century Spain [HUM] (4 cr)

### **Partial Gender, Women, and Sexuality Content**

*Take at most 8 credits from the following:*

ARTS 3014—Media Studies: Fabric as Form [ART/P] (3 cr)

ECON 4101—Labor Economics I [HDIV] (2 cr)

ENGL 2411—Representations of American Indians in Popular and Academic Culture [HDIV] (4 cr)

ENGL 3142—The Rise of the Novel (4 cr)

ENGL 3154—19th-Century British Fiction (4 cr)

ENGL 3168—Victorian Literature and Culture (4 cr)

ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)

ENGL 3411—Critical Approaches to Literature (4 cr)

ENGL 3444—Holocaust Literature and Film [IP] (4 cr)

ENGL 3522—Harlem Renaissance [HDIV] (4 cr)

ENGL 4031—Research Seminar: Renaissance Romance (4 cr)

ENGL 4034—Research Seminar: The Adventure Novel in American and British Literature (4 cr)

FREN 1031—Modern Studies: The Modern Body in France [SS] (4 cr)

FREN 1302—French Cinema [IP] (4 cr)

FREN 1311—Sub-Saharan Francophone Cinema [IP] (4 cr)

FREN 3603—Francophone Studies: Contes francophones (2 cr)

HIST 2103—Medieval Europe [HIST] (4 cr)

HIST 3008—The Making of the Islamic World [HDIV] (4 cr)

HIST 3207—The Crusades [IP] (4 cr)

PHIL 2112—Professional Ethics [E/CR] (4 cr)

PSY 3404—Culture and Human Development [HDIV] (4 cr)

PSY 3542—Multicultural Psychology [HDIV] (4 cr)

SOC 2101—Systems of Oppression [HDIV] (4 cr)

SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)

SOC 3122—Sociology of Childhoods [HDIV] (4 cr)

SOC 3123—Sociology of Aging [HDIV] (4 cr)

SOC 3141—Sociology of Deviance [E/CR] (4 cr)

SPAN 3685—Seminar: Slavery and Abolition in Cuban Literature and Culture [IP] (4 cr)

SPAN 3686—Seminar: Writing History in Spanish American Literature [HUM] (4 cr)

SPAN 3687—Seminar: Afro-Hispanic Literature and Culture [HDIV] (4 cr)

## Gender, Women, and Sexuality Studies Minor

Students develop a coherent program of study in consultation with their adviser. In developing an elective plan, students are strongly encouraged to consult with faculty who teach within the GWSS program.

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### **Required Courses**

- GWSS 1101—Introduction to Gender, Women, and Sexuality Studies [HDIV] (4 cr)

**Elective Requirements**

Students must fill the remaining 20 credits with courses from the following lists. These courses must come from at least three different disciplines. A course not listed below may be applied to the elective requirement with the consent of the instructor and GWSS coordinator.

**Primarily Gender, Women, and Sexuality Content**

Take 16 or more credits from the following:

ANTH 2202—Men and Masculinities [SS] (4 cr)  
 ANTH 2206—Sex, Marriage, and Family [HDIV] (4 cr)  
 ANTH 3602—Women in Latin America [IP] (4 cr)  
 ARTH 3281—Women and Art [FA] (4 cr)  
 ENGL 2031—Gender in Literature and Culture [HDIV] (4 cr)  
 ENGL 3155—20th-Century British Fiction (4 cr)  
 ENGL 3332—African American Women Writers [HDIV] (4 cr)  
 ENGL 3414—Feminist Theory [HDIV] (4 cr)  
 GER 3501—Women's Issues in Contemporary German Culture [IP] (4 cr)  
 GWSS 3001—Troubling Genders in African Cinema [HUM] (4 cr)  
 GWSS 3414—Feminist Theory [HDIV] (4 cr)  
 GWSS 3993—Directed Study (1–5 cr)  
 HIST 1402—Gender, Women, and Sexuality in American History [HDIV] (4 cr)  
 HIST 2704—Gender, Women, and Sexuality in Medieval Europe [SS] (4 cr)  
 HIST 2708—Gender, Women, and Sexuality in Modern Europe [IP] (4 cr)  
 PHIL 2141—Analytic Feminism [HUM] (4 cr)  
 POL 3303—Feminist Political Theory [SS] (2 cr)  
 PSY 3051—The Psychology of Women and Gender [HDIV] (4 cr)  
 PSY 3221—Behavioral Biology of Women [SCI] (4 cr)  
 PSY 3261—Human Sexuality (4 cr)  
 SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)  
 SOC 3252—Women in Muslim Society [IP] (4 cr)  
 SOC 3602—Women in Latin America [IP] (4 cr)  
 SPAN 3654—Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature [HUM] (4 cr)  
 SPAN 3688—Seminar: Literature and Gender in Nineteenth-Century Spain [HUM] (4 cr)

**Partial Gender, Women, and Sexuality Content**

Take at most 4 credits from the following:

ARTS 3014—Media Studies: Fabric as Form [ART/P] (3 cr)  
 ECON 4101—Labor Economics I [HDIV] (2 cr)  
 ENGL 2411—Representations of American Indians in Popular and Academic Culture [HDIV] (4 cr)  
 ENGL 3142—The Rise of the Novel (4 cr)  
 ENGL 3154—19th-Century British Fiction (4 cr)  
 ENGL 3168—Victorian Literature and Culture (4 cr)  
 ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)  
 ENGL 3311—American Indian Literature [HDIV] (4 cr)  
 ENGL 3411—Critical Approaches to Literature (4 cr)  
 ENGL 3444—Holocaust Literature and Film [IP] (4 cr)  
 ENGL 3522—Harlem Renaissance [HDIV] (4 cr)  
 ENGL 4031—Research Seminar: Renaissance Romance (4 cr)  
 ENGL 4034—Research Seminar: The Adventure Novel in American and British Literature (4 cr)  
 FREN 1031—Modern Studies: The Modern Body in France [SS] (4 cr)  
 FREN 1302—French Cinema [IP] (4 cr)  
 FREN 1311—Sub-Saharan Francophone Cinema [IP] (4 cr)  
 FREN 3603—Francophone Studies: Contes francophones (2 cr)  
 HIST 2103—Medieval Europe [HIST] (4 cr)  
 HIST 3008—The Making of the Islamic World [HDIV] (4 cr)  
 HIST 3207—The Crusades [IP] (4 cr)  
 PHIL 2112—Professional Ethics [E/CR] (4 cr)  
 PSY 3404—Culture and Human Development [HDIV] (4 cr)  
 PSY 3542—Multicultural Psychology [HDIV] (4 cr)  
 SOC 2101—Systems of Oppression [HDIV] (4 cr)  
 SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)  
 SOC 3122—Sociology of Childhoods [HDIV] (4 cr)  
 SOC 3123—Sociology of Aging [HDIV] (4 cr)

SOC 3141—Sociology of Deviance [E/CR] (4 cr)  
 SPAN 3685—Seminar: Slavery and Abolition in Cuban Literature and Culture [IP] (4 cr)  
 SPAN 3686—Seminar: Writing History in Spanish American Literature [HUM] (4 cr)  
 SPAN 3687—Seminar: Afro-Hispanic Literature and Culture [HDIV] (4 cr)

**Gender, Women, and Sexuality Studies Course Descriptions**

**ANTH 2202. Men and Masculinities.** (SS; 4 cr; prereq some academic background or knowledge about gender and sexuality is recommended; fall, offered periodically)

Introduction to the field of men and masculinity. Examines cultural construction of masculinity in sports, family, work, media, and other social realms, with a focus on contemporary American, Chinese, Mexican, and Japanese societies. Highlights the multiple masculinities that exist, showing which are privileged and what effects this hierarchy of masculinities has. Topics include men's movements and networks, men's socialization, male sexuality and fertility, male aggression and violence, the idea of machismo, intimacy and friendship among males, fatherhood, men's experiences with sports and work, media representations of boys and men, and the social construction of masculinities in different historical and cultural contexts. Helps students understand how masculinity as a social concept affects their relationships with the people in their lives, approaching gender problems in a rational way, and developing cultural sensitivity toward masculinity issues.

**ANTH 2206. Sex, Marriage, and Family.** (HDIV; 4 cr; spring, offered periodically)

Introduction to classic anthropological theories of sexuality, kinship, and marriage. Consider how emotional and experiential aspects of sex, marriage, and family life—love and romance as well as conflict and control—are shaped by formal arrangements known as "social structure." Topics such as gift-exchange, cousin-marriage, patrilineal and matrilineal descent, incest, arranged marriage, and the concept of "blood" relations in North American families are addressed. Also explore recent anthropological work on such topics as transnational adoption, marriage migration, and new reproductive technologies.

**ANTH 3602. Women in Latin America.** (IP; 4 cr; =[SOC 3602]; prereq 1111 or Soc 1101 or #; spring, every year)

Same as Soc 3602. Study of the social, economic, and political positions of women in Latin American countries. Topics include class and ethnic differences, women in the labor force, and women's participation in political movements through the lens of feminist theory.

**ARTH 3281. Women and Art.** (FA; 4 cr; prereq any 1xxx ArH course or jr status or #; fall, even years)

A historical survey of women's roles as creators and patrons of the visual arts in Western European and American societies, from antiquity to the present.

**ARTS 3014. Media Studies: Fabric as Form.** (ART/P; 3 cr [max 9 cr]; prereq major or minor or #; materials fee required; fall, spring, summer, offered periodically)

Focus on the possibilities of fabric as the primary medium in art making. Topics include processes and using fabric to construct independent forms.

**ECON 4101. Labor Economics I.** (HDIV; 2 cr; prereq 3201 or #; fall, every year)

Wage and employment determination. Distribution of earnings and earnings inequality by race and sex. Labor supply applications.

**ENGL 2031. Gender in Literature and Culture.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; fall, spring, offered periodically)

Introduction to literary and cultural representations of gender. Emphasis on the intersections between power and the social relations of gender, race, class, and sexuality.

**ENGL 2411. Representations of American Indians in Popular and Academic Culture.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or declared English major; fall, offered periodically)

Study of representations of American Indians in American popular and academic culture including literature, films, and sports. Particular attention given to how Indian identity, history, and cultures are represented in pop culture by non-Indians and, more recently, Indians themselves.



**ENGL 3142. The Rise of the Novel.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; spring, offered periodically)  
The 18th-century origins of the British novel: experiments with the new form, influence of earlier genres, evolution of formal realism. Authors may include Austen, Burney, Fielding, Richardson, and Sterne.

**ENGL 3154. 19th-Century British Fiction.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, spring, offered periodically)  
The rise of the novel to respectability and prominence in Britain from the Romantics to the Victorians.

**ENGL 3155. 20th-Century British Fiction.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, spring, offered periodically)  
Major novelists from the Modernist period and after, focusing on the historical context of the new challenges to literary tradition.

**ENGL 3168. Victorian Literature and Culture.** (4 cr; prereq 2501, two from 2201, 2201, 2211, 2212, or #; spring, every year)  
Studies an array of 19th-century literary forms, including fiction, poetry, drama, and prose, in their social and political contexts.

**ENGL 3301. U.S. Multicultural Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212, or #; spring, offered periodically)  
Examination of literatures by African American, American Indian, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

**ENGL 3311. American Indian Literature.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212, or #; fall, spring, offered periodically)  
Study of American Indian literature written in English. Particular attention given to language, identity, land, and sovereignty.

**ENGL 3332. African American Women Writers.** (HDIV; 4 cr; prereq 1601 (or 1011) or equiv or #; fall, offered periodically)  
If African Americans struggled to achieve equality and recognition in the racist United States, the situation was even more difficult for African American women, who had to contend with the sexism in both the white and black communities. This course examines the writings of prominent African American women.

**ENGL 3411. Critical Approaches to Literature.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically)  
An introduction to the major schools of literary theory and cultural analysis; particular attention to the ways in which the dialogue and debate between these approaches define the discipline of literary criticism.

**ENGL 3414. Feminist Theory.** (HDIV; 4 cr; =[GWSS 3414]; prereq [2501 (or 1131), two from 2201, 2202, 2211, 2212] or [GWSS 1101]; fall, spring, offered periodically)  
Same as GWSS 3414. Engages students in a critical examination of several influential works participating in the elaboration of feminist theories. Readings and discussions focus on a series of themes and issues—gender, sexuality, race, class, language, bodies, etc.—and how these issues bear upon society.

**ENGL 3444. Holocaust Literature and Film.** (IP; 4 cr; prereq 1601 (or 1011) or equiv; fall, even years)  
Survey of Holocaust literature and film, focusing on works that clarify the political ideology that led so many to participate in the murder of two-thirds of Europe's Jews and that articulated what Jews suffered during the Nazi era.

**ENGL 3522. Harlem Renaissance.** (HDIV; 4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, even years)  
During the 1920s, there was a major aesthetic outpouring in the African American community. Listen to jazz, examine African American artwork, and read poetry, short stories, novels and essays from Harlem Renaissance writers.

**ENGL 4031. Research Seminar: Renaissance Romance.** (4 cr; prereq two from 31xx-35xx, #; fall, offered periodically)  
An intensive study of the ever-controversial and paradoxical romance genre of 16th- and 17th-century England. Texts include Sir Philip Sidney's "Arcadia," Lady Mary Wroth's "Urania," Robert Greene's "Menaphon," and William Shakespeare's "The Winter's Tale," among others.

**ENGL 4034. Research Seminar: The Adventure Novel in American and British Literature.** (4 cr; prereq two from 31xx-35xx, #; fall, odd years)  
Survey of adventure fiction in the Anglo-American tradition from Walter Scott through the mid 20th century, paying particular attention to themes that shaped this tradition, including imperialism and revisions of masculine identity.

**FREN 1031. Modern Studies: The Modern Body in France.** (SS; 4 cr; prereq (or coreq) 3011 or #; fall, spring, offered periodically)  
Beginning with Vesalius, this course examines how the notions of body and mind have been shaped and reshaped in tandem with the rise of the sciences in France, with emphasis on evolving conceptions of ability and disabilities. Taught in English. Meets Modern Studies (MOS) requirement in the French major.

**FREN 1302. French Cinema.** (IP; 4 cr; does not count towards the Fren minor; fall, spring, offered periodically)  
The history of filmmaking in France from the Lumiere brothers to the present; introduction to major trends in film theory. All films have English subtitles. Taught in English. Meets Modern Studies (MOS) requirement for the French major.

**FREN 1311. Sub-Saharan Francophone Cinema.** (IP; 4 cr; does not count toward the Fren minor; fall, spring, offered periodically)  
Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. All films have English subtitles. Taught in English. Meets Francophone Studies (FRS) requirement for the French major.

**FREN 3603. Francophone Studies: Contes francophones.** (2 cr [max 4 cr]; prereq (or coreq) 3011 or #; no credit for students who have received cr for Fren 3042; fall, spring, offered periodically)  
Study of the oral tale in African and Caribbean cultures. Examination of the form of these tales, their thematic structure, and how these tales have been translated into written and/or cinematographic texts. Meets Francophone Studies (FRS) requirement in French major.

**GER 3501. Women's Issues in Contemporary German Culture.** (IP; 4 cr; prereq 3011 or #; spring, offered periodically)  
Focus is on the German women's movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

**GWSS 1101. Introduction to Gender, Women, and Sexuality Studies.** (HDIV; 4 cr; fall, every year)  
This course introduces students to the theoretical concepts and impact of gender and sexuality in everyday life. Various feminist, queer, and other gender-oriented theories are considered and employed as students explore how definitions of femininity, masculinity, and sexuality have been created, maintained, negotiated, and resisted. Particular attention is paid to the complicated relationships between individuals and social systems, and to the ways in which class, race, ethnicity, age, and other identity categories intersect with definitions and representations of gender and sexuality.

**GWSS 3001. Troubling Genders in African Cinema.** (HUM; 4 cr; fall, spring, offered periodically)  
This course explores the ways in which Sub-Saharan African film directors have used cinematic arts to challenge and envision paradigms of feminine, masculine and queer identity. Students will study African models of womanist thought and how they work with, through and against various "Western" models of gender. All films have English subtitles.

**GWSS 3414. Feminist Theory.** (HDIV; 4 cr; =[ENGL 3414]; prereq [1101] or [Engl 2501 (or 1131), two from 2201, 2202, 2211, 2212]; fall, spring, offered periodically)  
Same as Engl 3414. Engages students in a critical examination of several influential works participating in the elaboration of feminist theories. Readings and discussions focus on a series of themes and issues—gender, sexuality, race, class, language, bodies, etc.—and how these issues bear upon society.

**GWSS 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**GWSS 4901. Gender, Women, and Sexuality Studies Capstone.** (1 cr; A-F only; prereq completion of 32 cr in women's studies; fall, spring, every year)  
This course requires a theoretical analysis paper, in which students analyze and reflect on their academic coursework and own intellectual autobiography. Students are expected to consider and apply feminist, queer, and/or other gender-oriented theoretical approaches in this final

paper. This course also requires a portfolio and a presentation and panel discussion. Students can work with any faculty teaching GWSS courses.

**HIST 1402. Gender, Women, and Sexuality in American History.** (HDIV; 4 cr; fall, spring, offered periodically)

Themes and methods in the history of women in the United States. Topics may include women in the colonial era; American Indian, African American, and immigrant women; sex roles; women and work, family, politics, the law, and religion.

**HIST 2103. Medieval Europe.** (HIST; 4 cr; fall, spring, offered periodically)

Survey of historical developments in Europe from about 500 to 1500.

**HIST 2704. Gender, Women, and Sexuality in Medieval Europe.** (SS; 4 cr; spring, odd years)

Analysis of the history of European women and gender systems as constructed during the Middle Ages (c. 500-1500).

**HIST 2708. Gender, Women, and Sexuality in Modern Europe.** (IP; 4 cr; fall, spring, offered periodically)

Examination of the forces that have shaped the lives of European women since 1600 and analysis of how changes in the structures of power and authority—religious, political, social, familial—affected the choices available to them. Students engage critically with the question of what bringing gender to the forefront of the study of European history has to teach them. Students gain an understanding of many of the underpinnings of American society, which has been deeply affected by European patterns of thought about women and their place in the world.

**HIST 3008. The Making of the Islamic World.** (HDIV; 4 cr; fall, even years)

Examines the origins, spread, and impact of Islamic civilization from the 6th through 15th centuries with particular emphasis upon political, religious, and intellectual developments.

**HIST 3207. The Crusades.** (IP; 4 cr; spring, even years)

Explores the historical contexts and consequences of the European Crusades between the 11th century and early modern period, including the perspective of European Jews, Turkish and Arabic Muslims, and Byzantine and Near Eastern Christians.

**PHIL 2112. Professional Ethics.** (E/CR; 4 cr; fall, every year)

A critical examination of moral issues that arise in a person's professional life. Possible topics include affirmative action, autonomy in the workplace, ethical issues in advertising, corporate responsibility, coercive wage offers, distributive justice, and sexual harassment. Issues concerning race, gender, and women are included in selected modules.

**PHIL 2141. Analytic Feminism.** (HUM; 4 cr; spring, offered periodically)

Applies an analytical approach to issues discussed in feminist writings. A mixture of lecture and discussion. Requirements include essay exams, papers, attendance, service-learning projects with related reflective journals, and class participation.

**POL 3303. Feminist Political Theory.** (SS; 2 cr; prereq 1101 or #; fall, offered periodically)

Examination of various ways of understanding gender through study of diverging perspectives within feminist political theory in conjunction with critical analysis of the relationships of feminist theory to political action.

**PSY 3051. The Psychology of Women and Gender.** (HDIV; 4 cr; prereq 1051 or #; spring, every year)

Exploration of the interactive biological, psychological, and socio-cultural processes that shape the lives of women and the experience of gender. Topics include: the psychobiology of sex; the social construction of sex and gender; socialization and development; media representations; identity and sexuality; language and communication; motivation and personality; relationships; work and family lives; mental and physical health; mid- and later life development; victimization; therapy; intersections of race, class, and gender; and feminist approaches to teaching, learning, and knowing.  
hrs lect, 1 hr lab)

**PSY 3221. Behavioral Biology of Women.** (SCI; 4 cr; prereq (3201 or 3211) or Biol 2111 or #; spring, every year)

Exploration of proximate and ultimate influences on female behavior in human and nonhuman species. Topics include sexual differentiation, gender differences in cognition, biological basis of sexual orientation, female sexual selection, dominance, and other topics of interest to students. Readings consist of primary journal articles.

**PSY 3261. Human Sexuality.** (4 cr; prereq 1051, 2001; no credit for students who have received cr for Psy 1071; fall, every year)

Survey of aspects of human sexuality, including intimacy and communication; male and female anatomy, physiology, and response; development of sexual differentiation, gender identity, gender role, and gender orientation; varieties of sexual expression; pregnancy and child birth; contraception and disease prevention; sexual coercion and abuse; sexual dysfunctions and their treatment.

**PSY 3404. Culture and Human Development.** (HDIV; 4 cr; prereq 1051; spring, every year)

Examination of the role of culture in human development through current research and examples from around the world. Learn about similarities and cultural differences in human development, and the regularities that explain these variations. Topics include the concept of culture in developmental psychology, diversity in child rearing practices, enculturation, gender roles, schooling, development in multicultural contexts, and the influence of technology and cultural change on development. Students learn to think culturally about their own development and see how it applies to their future careers.

**PSY 3542. Multicultural Psychology.** (HDIV; 4 cr; =[PSY 3541]; prereq 1051; fall, every year)

Theoretical and methodological approaches to multicultural psychology. Multicultural psychology is the systematic study of behavior, cognition, and affect settings where people of different backgrounds interact. Exploration of these interactions both within and outside of the United States. Topics may include worldviews, communication styles, acculturation, prejudice, white privilege, identity development, physical and mental health, and multicultural competencies.

**SOC 2101. Systems of Oppression.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some attention to other systems of oppression such as heterosexism and ageism.

**SOC 3112. Sociology of the Environment and Social Development.** (ENVT; 4 cr; prereq 1101 or #; fall, odd years)

Introduces students to the sociological study of the environment and social development. Examines the impact of international environmental and development efforts on individuals at the local level. Focuses on grassroots environmental activism and social development work. Explores and discusses power relations and systems of inequality within the context of environmental and social development efforts.

**SOC 3121. Sociology of Gender and Sexuality.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Introduces students to the sociological study of gender and sexuality. Focuses on gender difference and gender inequality. Analyzes the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today's world. Following a theoretical overview, examines how gender and sexuality affect everyday experiences.

**SOC 3122. Sociology of Childhoods.** (HDIV; 4 cr; prereq 1101 or #; spring, even years)

Introduces students to the sociological study of childhoods. Examines the interaction between societies and their youngest members-how societies shape children's lives through social institutions such as families, education, and the state. Takes a close look at children's access to privileges and resources as determined by children's experiences of race, gender, class, nationality, and sexual orientation.

**SOC 3123. Sociology of Aging.** (HDIV; 4 cr; prereq 1101; spring, every year)

An introduction to sociology of aging. Examination of the major theories of social aging as well as the historical and cross-cultural variations in aging and differences by race, ethnicity, gender, and social class.

**SOC 3141. Sociology of Deviance.** (E/CR; 4 cr; prereq 1101 or #; fall, even years)

Introduces students to the sociological study of deviance. Explores the social reality of deviance within contemporary society and examines the social construction of deviant categories. Focuses on images of deviance as social constructs, rather than as intrinsic elements of human behavior. Investigates the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also, examines the socio-cultural definitions of morality and behavior.

**SOC 3252. Women in Muslim Society.** (IP; 4 cr; prereq 1101 or Anth 1111; spring, offered periodically)

The cultures and social statuses of women in several Muslim countries are examined and placed in their political, economic, and religious contexts.

**SOC 3602. Women in Latin America.** (IP; 4 cr; =[ANTH 3602]; prereq 1101 or Anth 1111 or #; spring, every year)

Same as Anth 3602. Study of the social, economic, and political positions of women in Latin American countries. Topics include class and ethnic differences, women in the labor force, and women's participation in political movements through the lens of feminist theory.

**SPAN 3654. Seminar: Sex, Love, and Marriage in Golden Age**

**Spanish Literature.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)

The theme of sex, love, and marriage in Golden Age Spanish Literature through prose, poetry, and theatre of the Golden Age (XVI–XVII centuries) Spain. Consideration of the gender relations and gender politics reflected in the works and the socio-historical context in which these works were produced.

**SPAN 3685. Seminar: Slavery and Abolition in Cuban Literature and Culture.** (IP; 4 cr; prereq 3012, 3112, or #; fall, spring, offered periodically)

A study of the major texts surrounding Cuban slavery from the 1812 Aponte slave rebellion to independence from Spain in 1898. How did 19th-century writers depict Cuban slave society? What was the relationship between literature, abolition, and independence?

**SPAN 3686. Seminar: Writing History in Spanish American Literature.** (HUM; 4 cr; prereq 3011, 3012, or #; fall, spring, offered periodically)

A study of 20th–and 21st-century Latin American historical novels and the colonial and 19th-century texts on which they are based. How and why is the past mobilized to meet the needs of the present? How do historical events continue to haunt the present day?

**SPAN 3687. Seminar: Afro-Hispanic Literature and Culture.** (HDIV; 4 cr; prereq 3011, 3012, or #; fall, spring, offered periodically)

An overview of the literature and culture of peoples of African descent in Spanish America from the colonial period to present day. How have Afro-Hispanics been marginalized from national projects in Spanish America? To what extent and under what circumstances has the group been included? How have Afro-Hispanic writers responded to larger culture?

**SPAN 3688. Seminar: Literature and Gender in Nineteenth-Century Spain.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)

An examination of 19th-century Spanish literature with primary emphasis on gender representation and construction. Readings include both canonical and lesser known works, by both male and female writers, that reflect an ongoing dialogue regarding traditional and shifting notions of gender identity and relations in Spain at the time.

## Geography (GEOG)

*Division of the Social Sciences*

**Objectives—**Geography courses focus on basic concepts of the field and deal with both societal relationships and the physical environment. Geog 2001 satisfies the geography requirement for students seeking secondary school teaching licensure in the social sciences.

### Geography Course Descriptions

**GEOG 2001. Problems in Geography.** (ENVT; 4 cr; spring, every year)

Basic concepts and questions in the field of geography. The terminology and approaches of geographical inquiry and analysis, with emphasis on the spatial patterns and arrangements of human interaction with the landscape and the production of geographical knowledge.

**GEOG 3501. Geographic Information Systems.** (ENVT; 4 cr; prereq any 1xxx course in social or natural sciences; fall, spring, offered periodically)

The theory and practice of Geographic Information Systems. Topics include data models, spatial statistics, and cartographic modeling. Special emphasis on social and environmental applications. (two 65-minute lect, one 120-minute lab session per week)

## Geology (GEOL)

*Division of Science and Mathematics*

Geology offers courses that satisfy a variety of requirements, as well as a curriculum leading to a bachelor of arts degree in geology.

**Objectives—**The geology curriculum serves those interested in a broader knowledge of their natural environment and the geological sciences as part of their liberal arts education; provides a firm foundation in geology, related sciences, and mathematics for students interested in the investigation and solution of geologic problems; prepares students for graduate study in the geosciences and related areas; provides the necessary background in earth science for those who plan to teach in this field at the secondary level; and serves those in other professional or interdisciplinary programs who need geology as a related subject.

### Geology Major

Up to 8 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. Courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Students intending to pursue graduate studies in the geological sciences should take CSCI 1301, GEOL 2151, MATH 1102, and PHYS 1101.

#### Required Courses

CHEM 1101—General Chemistry I [SCI-L] (5 cr)  
 CHEM 1102—General Chemistry II [SCI-L] (5 cr)  
 GEOL 1101—Physical Geology [SCI-L] (4 cr)  
 GEOL 2101—Mineralogy and Crystallography [SCI-L] (4 cr)  
 GEOL 2111—Igneous and Metamorphic Petrology [SCI-L] (4 cr)  
 GEOL 2121—Sedimentology and Stratigraphy [SCI-L] (4 cr)  
 GEOL 3101—Structural Geology [SCI-L] (4 cr)  
 GEOL 4901—Geology Senior Seminar (1 cr)  
 GEOL 4902—Geology Senior Seminar Presentations (1 cr)  
 MATH 1021—Survey of Calculus [M/SR] (4 cr)  
 or MATH 1101—Calculus I [M/SR] (5 cr)  
 Completion of approved Geology Field Camp (6 cr)

#### Elective Courses

*Take 10 or more credits from the following:*

GEOL 2131—Geomorphology [SCI] (4 cr)  
 GEOL 2141—Glacial and Quaternary Geology [SCI] (4 cr)  
 GEOL 2161—GIS and Remote Sensing [SCI] (4 cr)  
 GEOL 3001—Global Tectonics [SCI] (4 cr)  
 GEOL 3111—Introduction to Paleontology [SCI-L] (4 cr)  
 GEOL 3401—Geophysics [SCI] (4 cr)  
 GEOL 3501—Hydrology [SCI] (4 cr)  
 GEOL 4130—Advanced Geomorphology (4 cr)  
 GEOL 4140—Advanced Glacial and Quaternary Geology (4 cr)  
 GEOL 3993—Directed Study (1.0–5 cr)  
 or GEOL 4993—Directed Study (1.0–5 cr)

*Recommended for graduate studies:*

GEOL 2151—Historical Geology: Earth History and Changing Scientific Perspectives [SCI-L] (4 cr)

#### Additional Electives

Courses must be chosen in consultation with a geology adviser.

*Take 7 or more credits from the following:*

BIOL 1xxx, 2xxx, 3xxx, 4xxx  
 CHEM 1xxx, 2xxx, 3xxx, 4xxx  
 CSCI 1xxx, 2xxx, 3xxx, 4xxx  
 MATH 1xxx, 2xxx, 3xxx, 4xxx  
 NSCI 1xxx, 2xxx, 3xxx, 4xxx  
 PHYS 1xxx, 2xxx, 3xxx, 4xxx  
 STAT 1xxx, 2xxx, 3xxx, 4xxx  
 ESCI 2xxx, 3xxx

## Geology Minor

Up to 8 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits earning a grade of A or B. The GPA in these courses must be at least 2.00.

### Minor Required Courses

GEOL 1101—Physical Geology [SCI-L] (4 cr)  
 GEOL 2101—Mineralogy and Crystallography [SCI-L] (4 cr)  
 GEOL 2111—Igneous and Metamorphic Petrology [SCI-L] (4 cr)  
 GEOL 2121—Sedimentology and Stratigraphy [SCI-L] (4 cr)  
 CHEM 1101—General Chemistry I [SCI-L] (5 cr)  
 CHEM 1102—General Chemistry II [SCI-L] (5 cr)

### Elective Courses

*Take 8 or more credits from the following:*

GEOL 2131—Geomorphology [SCI] (4 cr)  
 GEOL 2141—Glacial and Quaternary Geology [SCI] (4 cr)  
 GEOL 2151—Historical Geology: Earth History and Changing Scientific Perspectives [SCI-L] (4 cr)  
 GEOL 2161—GIS and Remote Sensing [SCI] (4 cr)  
 GEOL 3001—Global Tectonics [SCI] (4 cr)  
 GEOL 3101—Structural Geology [SCI-L] (4 cr)  
 GEOL 3111—Introduction to Paleontology [SCI-L] (4 cr)  
 GEOL 3401—Geophysics [SCI] (4 cr)  
 GEOL 3501—Hydrology [SCI] (4 cr)  
 GEOL 4130—Advanced Geomorphology (4 cr)  
 GEOL 4140—Advanced Glacial and Quaternary Geology (4 cr)

*Take at most 3 credits from the following:*

GEOL 1993—Directed Study (1-5 cr)  
 GEOL 2993—Directed Study (1-5 cr)  
 GEOL 3993—Directed Study (1-5 cr)  
 GEOL 4993—Directed Study (1-5 cr)

### Teacher Preparation Requirements

Students seeking teaching licensure in earth and space science 9–12 should refer to the Education, Secondary (SeEd) section of this catalog.

## Geology Course Descriptions

**GEOL 1001. Environmental Geology: Geology in Daily Life.** (SCI; 4 cr; may not count toward the geol major or minor; spring, every year)  
 Effects of volcanoes, earthquakes, and floods on humans and civilization; geologic problems associated with rural and urban building, waste management, and waste disposal; the importance of geologic knowledge in the discovery of fossil fuels and mineral resources. (4 hrs lect)

**GEOL 1011. Geology of the National Parks.** (SCI; 4 cr; may not count toward the geol major or minor; fall, offered periodically)  
 Exploration of the fundamental aspects of the geosciences: earth materials, geologic time, plate tectonics, and the evolution of landscapes by examining the geology and geologic history of the U.S. national parks. (4 hrs lect)

**GEOL 1012. Oceanography.** (SCI; 4 cr; may not count toward geol major or minor; fall, offered periodically)  
 Physiography and geological evolution of ocean basins; marine sedimentation; coastal processes and environments; chemical evolution, and chemical and physical properties of seawater; ocean-atmosphere interactions; deep-ocean circulation; waves and tides; marine ecosystems. (4 hrs lect)

**GEOL 1101. Physical Geology.** (SCI-L; 4 cr; fall, spring, every year)  
 Introduction to the materials that make up the Earth and the structures, surface features, and geologic processes involved in its origin and development. Lab work includes study of the major constituents of the Earth's crust, including the important rocks and minerals; study of surface and geologic features using aerial photographs, topographic maps, and satellite imagery. (3 hrs lect, 3 hrs lab)

**GEOL 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**GEOL 2001. Natural and Unnatural Geologic Hazards.** (ENVT; 4 cr; spring, offered periodically)  
 Examination of the more significant interactions between humans and geologic environments and processes. Earthquake and volcanic hazards,

river flooding, mass movements and slope stability, coastal hazards, and water resources and pollution. Lectures and problems sets emphasize the quantitative approaches used to determine the likelihood and frequency of natural hazards, assess associated risks, and mitigate damage.

**GEOL 2031. Introduction to Field and Research Methods in Geology.** (SCI-L; 4 cr; prereq 1101 or #; a field trip is required during the semester; spring, offered periodically)

An introduction to geologic research and field methods. Topics include: research methodologies, use of library resources, geologic sampling, fundamentals of mapping and data collection, use of the Brunton compass, map interpretation (topographic and geologic), geologic map and cross-section generation, and preparation of geological reports. (two 75-min lect; 3 hrs lab)

**GEOL 2101. Mineralogy and Crystallography.** (SCI-L; 4 cr; prereq 1101, Chem 1101 or #; fall, every year)

Classification, identification, physical and chemical properties, origin and natural occurrence of major mineral groups. Lab study of crystal systems by use of models; introduction to optical aspects and physical and chemical testing. (3 hrs lect, 6 hrs lab and field trips)

**GEOL 2111. Igneous and Metamorphic Petrology.** (SCI-L; 4 cr; prereq 2101; spring, every year)

Classification, composition, genesis, and natural occurrence of igneous and metamorphic rocks; lab study and identification of rocks by various macroscopic, microscopic, and chemical means. (3 hrs lect, 6 hrs lab and field trips)

**GEOL 2121. Sedimentology and Stratigraphy.** (SCI-L; 4 cr; prereq 2101; fall, even years)

Processes of sedimentation, including origin, transportation, and deposition of sediments; interpretation of sedimentary environments. Principles of stratigraphy and their applications. Lab work includes sedimentary particle analysis; stratigraphic sections; and interpretation of ancient sedimentary environments based on stratified sequences of sedimentary rock. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 2131. Geomorphology.** (SCI; 4 cr; prereq 1101; fall, even years)  
 Study of the Earth's surface and surficial processes; weathering, erosion, and deposition, and the resulting landforms and products; the history of the study of landforms in the United States. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 2141. Glacial and Quaternary Geology.** (SCI; 4 cr; prereq 1101; spring, odd years)

Glaciers, glaciology, glacial deposition, glacial erosion; climatic change and the growth and advance of ice sheets; effect of glaciations on flora and fauna. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 2151. Historical Geology: Earth History and Changing Scientific Perspectives.** (SCI-L; 4 cr; fall, odd years)

Development of fundamental theories and principles of geology, including stratigraphy, uniformitarianism, geologic time, evolution, and plate tectonics. Emphasis on how geological thought has evolved through time as the scientific, religious, and political climate has changed. Discussion of the Earth's history and science's changing views of the Earth; continental movements, mountain building, and the evolution and development of organisms and ecosystems. Lab experience on methods of interpreting Earth's history from rocks, fossils, and structures and solving geological problems. (3 hrs lect, 3 hrs lab)

**GEOL 2161. GIS and Remote Sensing.** (SCI; 4 cr; prereq 1101 or Biol 1101 or Biol 1111 or #; spring, every year)

Introduction to design, development, and application of Geographic Information Systems (GIS); overview of acquisition and utility of satellite data and imagery; emphasis on applications in Earth and environmental sciences; lab component focuses on practical aspects of GIS development and use and involves original semester projects designed and implemented by individual students.

**GEOL 2301. Geology of Minnesota.** (SCI-L; 4 cr; summer, offered periodically)

Active, hands-on learning both in class and on class field trips to selected localities throughout the state. Field trips include: Pipestone National Monument; glacial geology of west-central Minnesota; geology of the Minnesota River Valley; and St. Cloud Quarry Park.

**GEOL 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**GEOL 3001. Global Tectonics.** (SCI; 4 cr; prereq #; fall, spring, offered periodically) Internal structure and composition of the earth; geometry and motion of lithospheric plates; geological and geophysical processes at plate boundaries; evolution of mountain belts; heat flow, thermal convection, and the driving mechanism for plate movement.

**GEOL 3006. X-ray Diffraction Techniques for the Identification of Clay Minerals in Geologic Environments.** (2 cr; prereq 1101; spring, offered periodically)

Introduction to clay mineralogy, discussion of the significance of clay minerals in physiochemical and biological processes that occur in terrestrial and marine environments, and the application of X-ray diffraction in the identification and analysis of clays in different geologic environments.

**GEOL 3011. Earth Resources.** (ENVT; 4 cr; prereq any 1xxx or 2xxx Geol course or #; fall, offered periodically)

Geology of mineral (base metals, precious metals, and non-metals), energy (fossil fuels, uranium, and alternatives), and other (water and soil) resources; overview of techniques for resource identification, delineation, and extraction; discussion of issues (e.g., environmental, political, and social) surrounding resource identification, extraction, and use; global resource distribution, historical trends, and future outlook.

**GEOL 3101. Structural Geology.** (SCI-L; 4 cr; prereq 2111 or #; spring, every year)

Elementary concepts of stress and strain, theory of rock deformation; description and classification of structures in the Earth's crust; application of geometric, analytical, and map interpretation techniques to solving structural problems; field mapping problems. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 3111. Introduction to Paleontology.** (SCI-L; 4 cr; prereq 2151 or Biol 2101 or EnSt 2101 or #; fall, even years)

An introduction to the study of the evolutionary history of life on earth as revealed in the fossil and geologic record. Laboratory focuses on study of the classification, morphology, and paleoecology of invertebrate fossils. (two 65-min lect, one 3-hr lab, and weekend collecting trip required)

**GEOL 3401. Geophysics.** (SCI; 4 cr; prereq Math 1101, Phys 1101 or #; fall, odd years)

Propagation of seismic waves, earthquake seismology, and the structure of the Earth; the origin and nature of the Earth's magnetic and gravitational fields; the Earth's internal production and flow of heat; composition, state, and rheology of the Earth's interior; plate tectonics and elementary geodynamics. (4 hrs lect)

**GEOL 3501. Hydrology.** (SCI; 4 cr; prereq Math 1101 or #; fall, every year)

An examination of the hydrological cycle; evapotranspiration and precipitation; processes of infiltration; rainfall-runoff relationships and the generation of overland flow; response of the drainage basin to storm events; flood-frequency analysis; elements of groundwater flow and evaluation of aquifer characteristics; water quality, contamination, and contaminant transport. (4 hrs lect)

**GEOL 3502. Groundwater.** (ENVT; 4 cr; prereq 1101 or #; spring, odd years)

The origin, occurrence, and availability of groundwater, aquifer geology and groundwater resources, chemical character of groundwater and groundwater pollution, groundwater wells and well design, and groundwater as a geologic agent. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**GEOL 4130. Advanced Geomorphology.** (4 cr [max 8 cr]; prereq 2131; spring, offered periodically)

Surficial processes and the resulting landforms; may include catastrophic events, large lakes, arid regions geomorphology or the evolution of the Badlands. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 4140. Advanced Glacial and Quaternary Geology.** (4 cr [max 8 cr]; prereq 2141; fall, odd years)

Glacial geology and glacial history; may include pre-pleistocene glaciations, quaternary stratigraphy, or subglacial processes. (3 hrs lect, 3 hrs lab and field trips)

**GEOL 4901. Geology Senior Seminar.** (1 cr; prereq #; required for geol major; fall, every year)

Capstone experience in Geology. Discussion of selected topics of geologic interest.

**GEOL 4902. Geology Senior Seminar Presentations.** (1 cr; prereq #; required for geol major; spring, every year)  
Capstone experience in geology. Presentations of research projects.

**GEOL 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## German Studies (GER)

### *Division of the Humanities*

This is an interdisciplinary program housed in the Division of the Humanities. The program is administered by the German studies coordinator and the chair of the Division of the Humanities.

The German Studies curriculum includes the language, literature, film, linguistics, history and culture of German-speaking countries and Germanic Languages. The courses are designed to enhance students' understanding of their own language and culture through introduction to another. Our courses expand students' ability to think by giving them a new tool with which to do so. The courses are carefully sequenced to incrementally increase student aptitude in the one skill upon which everything else they could possibly do or study relies: language. Expansion of thought in any field of study requires the acquisition of new language. Learning the German language provides students with direct access to the world's fourth largest economy as well as the sister economies of the other German speaking countries (Germany, Austria, Switzerland). Additionally students gain intimate knowledge of a linguistic tradition and culture that has produced innovation in almost every field of study pursued on campus, thereby benefiting students regardless of their main area of concentration.

**Objectives**—Learning an entirely new linguistic idiom increases ones' ability to think and neurological studies have shown that it actually grows brain cells. Our primary goal is to enable students to become culturally competent. We have constructed the curriculum to increase student confidence and social skills by capitalizing on their innate and extant ability to use language and demonstrating to them that they can acquire another language, while also providing an understanding of language itself that will enable them to acquire further languages. The intellectual and practical skills enable students to gain a deeper understanding of the roles of individuals in society as well as building upon their capacity for integrative learning. Our program aims to provide students with opportunities that will enable them to directly apply newly acquired linguistic abilities, cultural knowledge and social skills in their chosen area of study through study abroad, internships and professional exchanges.

### Study Abroad

In light of today's increasingly interdependent world, the German faculty strongly encourages study abroad in combination with a German Studies major or minor, as a most effective means by which to:

- \* improve language abilities
- \* broaden academic horizons
- \* globalize one's world view
- \* expand career opportunities

**Study in Austria and Germany**—The University is affiliated with exchange programs in Berlin and Freiburg for both one- and two-semester stays. There are also possibilities for study at many other German, Austrian, and Swiss universities. Language prerequisites vary for each program. Through the Academic Center for Enrichment, students may explore further opportunities.

### German Studies Major

Elective plans must be designed to ensure that there is sufficient depth of coverage in the chosen German studies electives. For many students, a double-major (or minor) in a closely related disciplinary major is desirable. For some majors, electives can be selected in such a way that many of the courses in a coherent

German studies elective plan also count toward the second major. An advising sheet for recommended course combinations and areas of focus will be available to students and faculty involved.

In addition to the requirements for the major, students are encouraged to complete at least one year of instruction in another foreign language.

No grades below C—are allowed. Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

GER 2001—Intermediate German I [IP] (4 cr)  
 GER 2002—Intermediate German II [IP] (4 cr)  
 GER 3002—Introduction to the Linguistic Analysis of German [IP] (4 cr)  
 GER 3333—Advanced German Grammar [IP] (4 cr)  
 GER 4101—History of the German Language [HIST] (4 cr)  
 GER 3101—Introduction to German Literature and Culture I [HUM] (4 cr)  
 or GER 3102—Introduction to German Literature and Culture II [HUM] (4 cr)  
 GER 4001—German Civilization I: From the Stone Age to 1871 [HIST] (4 cr)  
 or GER 4002—German Civilization II: From 1871 to the Present [HIST] (4 cr)

#### Selection of Elective Courses

Other elective courses, not listed below, may be appropriate to add depth and provide more theoretical context for the German studies coursework (requires written approval of the course instructor and the program coordinator).

Elective credits must be from upper division (3xxx or 4xxx) courses and 4 or more upper division elective credits must be either in German courses or in courses where some work is done in German (3xxx-4xxx German or Partial German Electives).

#### Elective Courses

Courses listed under the "3xxx-4xxx German and Partial German Electives" heading that are outside of the German discipline (e.g., HIST 3209) require written approval of the course instructor and the program coordinator prior to registration.

Take 12 or more credits from the following:

##### 3xxx-4xxx German and Partial German Electives

Take 12 or more credits from the following:  
 ARTH 3132—Castles and Cathedrals [FA] (4 cr)  
 ENGL 3444—Holocaust Literature and Film [IP] (4 cr)  
 GER 3041—New German Cinema [IP] (4 cr)  
 GER 3201—Periods: German Classicism [HUM] (4 cr)  
 GER 3202—Periods: German Romanticism [HUM] (4 cr)  
 GER 3203—Periods: German Modernism [IP] (4 cr)  
 GER 3601—Studies in German Literature [HUM] (4 cr)  
 GER 3611—Austrian Studies [HUM] (4 cr)  
 HIST 3101—Renaissance and Reformation [HIST] (4 cr)  
 HIST 3204—Nazi Germany [HIST] (4 cr)  
 HIST 3209—Modern Germany [HIST] (4 cr)

##### German-related Content Electives

Exclusive of those used above

Take at most 8 credits from the following:

ENGL 4004—Research Seminar: Old English Literature and Language (4 cr)  
 HIST 3101—Renaissance and Reformation [HIST] (4 cr)  
 HIST 3204—Nazi Germany [HIST] (4 cr)  
 HIST 3209—Modern Germany [HIST] (4 cr)  
 PHIL 4002—Existentialism [HIST] (4 cr)

##### Supplemental Electives

Take at most 4 credits from the following:

ARTH 3201—19th-Century European Art through Post-Impressionism [FA] (4 cr)

ARTH 3211—Early Modernist Art: Symbolism to Surrealism [FA] (4 cr)  
 ENGL 3021—Grammar and Language [HUM] (4 cr)  
 ENGL 3411—Critical Approaches to Literature (4 cr)  
 MUS 3101—Core Studies III: Medieval, Renaissance, and Baroque Music [HIST] (4 cr)  
 MUS 3102—Core Studies III: Classical, Romantic, and 20th-Century Music [FA] (4 cr)

## German Studies Minor

No grades below C—are allowed. Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

GER 2001—Intermediate German I [IP] (4 cr)  
 GER 2002—Intermediate German II [IP] (4 cr)  
 GER 3333—Advanced German Grammar [IP] (4 cr)  
 GER 4101—History of the German Language [HIST] (4 cr)  
 GER 3101—Introduction to German Literature and Culture I [HUM] (4 cr)  
 or GER 3102—Introduction to German Literature and Culture II [HUM] (4 cr)  
 GER 4001—German Civilization I: From the Stone Age to 1871 [HIST] (4 cr)  
 or GER 4002—German Civilization II: From 1871 to the Present [HIST] (4 cr)

#### Selection of Elective Courses

Other elective courses, not listed below, may be appropriate to add depth and provide more theoretical context for the German studies coursework (requires written approval of the course instructor and the program coordinator).

At least 4 of the 8 elective credits must be upper division German courses or in courses where some work is done in German (3xxx-4xxx German or Partial German Electives).

#### Elective Courses

Courses listed under the "3xxx-4xxx German and Partial German Electives" heading that are outside of the German discipline (e.g., HIST 3209) require written approval of the course instructor and the program coordinator prior to registration.

Take 8 or more credits from the following:

##### 3xxx-4xxx German and Partial German Electives

Take 4 or more credits from the following:  
 ARTH 3132—Castles and Cathedrals [FA] (4 cr)  
 ENGL 3444—Holocaust Literature and Film [IP] (4 cr)  
 GER 3041—New German Cinema [IP] (4 cr)  
 GER 3201—Periods: German Classicism [HUM] (4 cr)  
 GER 3202—Periods: German Romanticism [HUM] (4 cr)  
 GER 3203—Periods: German Modernism [IP] (4 cr)  
 GER 3601—Studies in German Literature [HUM] (4 cr)  
 GER 3611—Austrian Studies [HUM] (4 cr)  
 HIST 3101—Renaissance and Reformation [HIST] (4 cr)  
 HIST 3204—Nazi Germany [HIST] (4 cr)  
 HIST 3209—Modern Germany [HIST] (4 cr)

##### German-related Content Electives

Exclusive of those used above

Take at most 4 credits from the following:

ENGL 4004—Research Seminar: Old English Literature and Language (4 cr)  
 HIST 2103—Medieval Europe [HIST] (4 cr)  
 HIST 3101—Renaissance and Reformation [HIST] (4 cr)  
 HIST 3204—Nazi Germany [HIST] (4 cr)  
 HIST 3209—Modern Germany [HIST] (4 cr)  
 PHIL 4002—Existentialism [HIST] (4 cr)

**Required Proficiency/Placement Examination**—Students who plan to complete courses in the same language they studied in high school must take the proficiency/placement examination and abide by the placement recommendation. If, after an initial exposure to the

recommended course, the placement seems inappropriate, students may follow the recommendation of their language instructor as to the proper entry course.

## German Studies Course Descriptions

**ARTH 3132. Castles and Cathedrals.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years)

An investigation of the two major forms of architectural construction in the Middle Ages. Exploration of the development of the cathedral and castle as architectural forms and examination of the circumstances surrounding their evolution through the medieval period. Examples are drawn from continental Europe, the British Isles, and the Levant.

**ARTH 3201. 19th-Century European Art through Post-Impressionism.**

(FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years) Survey of major movements from Neoclassicism through Romanticism, Realism, and Impressionism to Post-Impressionism. Attention is given to iconographical and formal analysis as well as to the social conditions in which artists lived and worked.

**ARTH 3211. Early Modernist Art: Symbolism to Surrealism.** (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years) Survey of the major early modernist movements from Symbolism through Cubism, Futurism, Expressionism, Constructivism, De Stijl, and the Bauhaus to Surrealism. Attention is given to theories of modern art as well as to formal and iconographical analyses and to the social conditions in which modern art was created and experienced.

**ENGL 3021. Grammar and Language.** (HUM; 4 cr; fall, every year) Study of the English language. Historical development and current structure. Includes language variation and change, social history of language, phonology, syntax, semantics, development of English grammar, prescriptive versus descriptive grammar, and contemporary theories of grammar.

**ENGL 3411. Critical Approaches to Literature.** (4 cr; prereq 2501 (or 1131), two from 2201, 2202, 2211, 2212; fall, offered periodically)

An introduction to the major schools of literary theory and cultural analysis; particular attention to the ways in which the dialogue and debate between these approaches define the discipline of literary criticism.

**ENGL 3444. Holocaust Literature and Film.** (IP; 4 cr; prereq 1601 (or 1011) or equiv; fall, even years)

Survey of Holocaust literature and film, focusing on works that clarify the political ideology that led so many to participate in the murder of two-thirds of Europe's Jews and that articulated what Jews suffered during the Nazi era.

**ENGL 4004. Research Seminar: Old English Literature and Language.** (4 cr; prereq two from 31xx-35xx, #; fall, spring, offered periodically)

Prose and poetry of early medieval England (650-1100) in translation and in Old English (which is studied), with attention to material (manuscripts) and cultural contexts and to reception history.

**GER 1001. Beginning German I.** (4 cr; fall, every year)

Introduction to German as it is spoken and written presently. The course acquaints students with the basic sounds, structures, and vocabulary of German and enables them to understand, read, and write the language and to communicate in German about everyday situations. It makes them aware of the relationship between culture and language.

**GER 1002. Beginning German II.** (FL; 4 cr; prereq 1001 or placement or #; spring, every year)  
Continuation of 1001.

**GER 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**GER 2001. Intermediate German I.** (IP; 4 cr; prereq 1002 or placement or #; fall, every year)

The skills of listening, reading, and writing are enhanced through grammar review while exploring several different cities in German-speaking lands and their history and cultural heritage. Course improves students' listening, speaking and writing abilities through guided readings including assignments on the internet relevant to topics such as geography, history, and culture.

**GER 2002. Intermediate German II.** (IP; 4 cr; prereq 2001 or #; spring, every year)

Builds on existing German skills by exploring several different cities in German-speaking lands along with their history and cultural heritage. The

course further improves students listening, speaking and writing abilities through grammar review and guided readings including assignments on the internet relevant to topics such as geography, history, and culture.

**GER 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**GER 3002. Introduction to the Linguistic Analysis of German.** (IP; 4 cr; prereq 3001 or equiv; knowledge of German is required; fall, offered periodically)

This course will provide an introduction to the linguistic analysis of German. In addition to examining the German language from the perspective of linguistic theory, students will be introduced to a variety of different theories of language and linguistic frameworks.

**GER 3011. Readings in German.** (IP; 4 cr; prereq 2011 or #; may enroll concurrently with 2002; soph or higher recommended; spring, every year) Students read and analyze modern texts in order to advance their ability to comprehend and discuss various literary styles. This course is a prerequisite for more advanced courses in the major and minor.

**GER 3031. German Play.** (ART/P; 4 cr; prereq 2001 or #; fall, spring, offered periodically)

Reading, study, and presentation of a short contemporary play. Enhances fluency and familiarity with the modern German idiom.

**GER 3041. New German Cinema.** (IP; 4 cr; prereq 3011; fall, offered periodically)

Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

**GER 3042. Weimar Film.** (IP; 4 cr; prereq 3011; spring, offered periodically)

Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

**GER 3101. Introduction to German Literature and Culture I.** (HUM; 4 cr; prereq 2002 or #; may enroll concurrently with 3001; fall, every year) Introduces German culture through a variety of texts and media (music, film, etc.) throughout all periods of German literature with the aim of building reading, writing, and listening skills. Ideally taken together with Ger 3001.

**GER 3102. Introduction to German Literature and Culture II.** (HUM; 4 cr; prereq 3101 or #; spring, every year)

Builds on 3101 and introduces German culture through a variety of texts and media (music, film etc.) throughout all periods of German Literature with the aim of building reading, writing and listening skills.

**GER 3201. Periods: German Classicism.** (HUM; 4 cr; prereq 3101, 3102 or #; spring, odd years)

Readings in aesthetic theory and exemplary works by writers of the period. Texts by Goethe and Schiller are read and analyzed in conjunction with opera librettos based on their works. Modern films and videos of theater performances supplement the readings.

**GER 3202. Periods: German Romanticism.** (HUM; 4 cr; prereq 3101, 3102 or #; spring, even years)

Readings in Romantic theory and works by important authors of the period: Wackenroder, Tieck, Novalis, Eichendorff, and E.T.A. Hoffmann. Other art forms, such as music and painting, supplement the literary discussions.

**GER 3203. Periods: German Modernism.** (IP; 4 cr; prereq 3101, 3102 or #; fall, spring, offered periodically)

Explores the culture of German-speaking countries around the turn of the 20th century (1890-1933) through literature, music, and the visual arts, especially as manifested in Symbolism, Secession (Art Nouveau), Expressionism, Dada, and New Objectivity.

**GER 3333. Advanced German Grammar.** (IP; 4 cr; prereq 2002 or #; may enroll concurrently with 3101; fall, every year)

Reinforce and review the entirety of German Grammar at an advanced level to competently approach reading and writing assignments in

advanced German courses while gaining a detailed knowledge of grammar.

**GER 3501. Women's Issues in Contemporary German Culture.** (IP; 4 cr; prereq 3011 or #; spring, offered periodically)

Focus is on the German women's movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

**GER 3601. Studies in German Literature.** (HUM; 4 cr; prereq 3011; fall, odd years)

Selected readings in German reflecting modern literary trends. The course examines the cultural politics in the evolution of the literature in the formerly divided Germany, using plays, novels, biography, and documentary reports. It deals with questions of literary theory, history, and socio-political structures.

**GER 3602. Scandinavian Literature 20th and 21st Century Novel.** (HUM; 4 cr; summer, offered periodically)

An introduction to the modern Scandinavian novel, including works from Norwegian, Danish, Swedish, Icelandic, and Finnish authors. This course is taught in English.

**GER 3611. Austrian Studies.** (HUM; 4 cr; prereq 3011 or #; fall, even years)

Selected readings in Austrian Literature from 1875 to 1925, including Marie von Ebner-Eschenbach, Rainer Maria Rilke, Arthur Schnitzler, and Hugo von Hofmannsthal. Historical background for the period through Brigitte Hamann's biography of Empress Elisabeth and/or Rudolph von Habsburg, the modern musical "Elisabeth," as well as the operetta "Die Fledermaus" and Istvan Szabo's film "Oberst Redl."

**GER 3701. The Red Army Faction in German Literature.** (IP; 4 cr; prereq Ger 3xxx course or #; summer, offered periodically)

Examination of the historical background surrounding the turbulent era of student protest in Germany and subsequent formation of the terrorist organization, the Red Army Faction. This course is only offered in German.

**GER 3702. Martial Masculinities: Manhood and Aggression in German Literature and Culture.** (HUM; 4 cr; summer, offered periodically)

Examination of masculinity in German-speaking lands by exploring history, literature, film, and graphic art from a theoretical perspective with particular focus on patterns of representation that define and shape "manliness" from the medieval to the modern era.

**GER 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**GER 4001. German Civilization I: From the Stone Age to 1871.** (HIST; 4 cr; prereq 3001 or equiv; fall, even years)  
This course facilitates effective engagement with the history and culture of German-speaking countries and Europe throughout the 19th century. This is a lecture style course taught entirely in German to improve listening, speaking, and writing abilities as well as to prepare for a study abroad experience.

**GER 4002. German Civilization II: From 1871 to the Present.** (HIST; 4 cr; prereq 3001 or equiv; spring, even years)  
This course facilitates effective engagement with the history and culture of the German-speaking countries and Europe from the late 19th century to the present. This is a lecture style course entirely in German that improves listening, speaking, and writing abilities and prepares students for a study abroad experience.

**GER 4101. History of the German Language.** (HIST; 4 cr; prereq 1001 or equiv; spring, even years)  
A linguistic history of the German language from its Proto-Indo-European roots to the present day. Particular emphasis is placed on understanding the historical origins of modern structures, leading to a deeper understanding of Modern German. Taught in English. Some knowledge of German required. (German majors must turn in written work in German.)

**GER 4901. Senior Project.** (1-5 cr [max 10 cr]; prereq 3011 or #; fall, spring, every year)  
A substantial scholarly or creative work (at the undergraduate level) in conjunction with or upon the completion of another course within the discipline. The senior project is recommended for German majors.

**GER 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**HIST 2103. Medieval Europe.** (HIST; 4 cr; fall, spring, offered periodically)

Survey of historical developments in Europe from about 500 to 1500.

**HIST 3101. Renaissance and Reformation.** (HIST; 4 cr; spring, odd years)

Examination of western European history and historiography between 1350 and 1600 with emphasis on cultural "renaissances" and religious "reformations."

**HIST 3204. Nazi Germany.** (HIST; 4 cr; fall, odd years)

History of Nazi Germany. Social and political origins, Nazi rule in the 1930s, the "final solution," World War II, and Germany's attempt to assess this era in its history.

**HIST 3209. Modern Germany.** (HIST; 4 cr; spring, odd years)

Examination of German history from the development of German national ideas through unification and consolidation of the modern German state in 1871 and through its re-unification at the end of the 20th century. Examines one of the most fascinating and tumultuous periods in German and European history, why the attempt to understand the German past has occupied so many historians, and why the debates surrounding that attempt have been so contentious. Sources include writings by established historians of Germany, novels, films, and music.

**MUS 3101. Core Studies III: Medieval, Renaissance, and Baroque Music.** (HIST; 4 cr; prereq 1102, major or minor or #; fall, odd years)

Historical development of Western music and representative literature of the various periods and styles.

**MUS 3102. Core Studies III: Classical, Romantic, and 20th-Century Music.** (FA; 4 cr; prereq 1102, major or minor or #; spring, odd years)

Historical development of Western music and representative literature of the various periods and styles.

**PHIL 4002. Existentialism.** (HIST; 4 cr; prereq any 1xxx or 2xxx or #; fall, spring, offered periodically)

Examination of some prominent thinkers often classified as "existentialists": Kierkegaard, Dostoevsky, Nietzsche, Sartre, and Camus. Topics include what human freedom is, what makes a life authentic (or inauthentic), what role passion and choice should play in acquiring our beliefs and values, and what difference (if any) God's existence or non-existence makes on the significance of our lives.

## History (HIST)

### *Division of the Social Sciences*

**Objectives**—The history curriculum is designed to introduce students to the study of the human past. Students majoring in history learn to approach decision-making with an awareness of a broad range of choices, learn to think critically and communicate their ideas effectively, learn to integrate their academic study with their intellectual and ethical development, and understand the construction of historical knowledge. The curriculum emphasizes the role of the student as an active learner and encourages individualized learning experiences, including those outside of established coursework, and the development of close working relationships between students and faculty.

### History Major

Students should develop a coherent program of study in consultation with their major adviser. The student and adviser must meet to plan the student's course of study and ensure the major encompasses breadth across regions and time periods. The student's plan must involve at least one course prior to 1750, and at least one course each from three of the following areas: Asia, Europe, Middle East/Africa, Latin America, Native America/Indigenous, and United States.

When the student applies for graduation, the adviser reviews the student's course of study to document that the student has successfully demonstrated breadth across regions and time periods in the major.



Prior to the end of the second week of the student's last semester before graduation, the student completes an anonymous online assessment of how well the program of study has enhanced the student's:

- \* familiarity with range of historical periods and cultures sufficiently broad to allow meaningful exploration of the human experience in varied times and places;
- \* ability to critically analyze, interpret, and synthesize various types of historical materials;
- \* insight into the construction of historical knowledge as reflective of personal and social contexts; and
- \* ability to initiate and pursue a course of historical inquiry.

No grades below C–are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

HIST 1111–Introduction to World History [HIST] (4 cr)  
 HIST 3181–The Study of History: Schools, Rules, and Tools [HIST] (4 cr)  
 HIST 4501–Senior Research Seminar in History (4 cr)

#### Electives

Students must complete 28 credits choosing at least one course prior to 1750, and at least one course each from three of the following areas: Asia, Europe, Middle East/Africa, Latin America, Native America/Indigenous, and United States. Directed Studies (X993) may be used in any of the areas if content is appropriate and approved by their major adviser.

Take 28 or more credits from the following:

#### History Prior to 1750

These courses fulfill the history prior to 1750 course requirement: Hist 1501, Hist 1601, Hist 2103, Hist 2609, Hist 2704, Hist 3008, Hist 3101, Hist 3102, Hist 3207, Hist 3559, Hist 3614, Hist 3704, Hist 3707

#### Geographical Areas

Take 28 or more credits including exactly 3 sub-requirements(s) from the following:

##### Asia

HIST 1501–Introduction to East Asian History: China, Japan, and Korea before 1800. [HIST] (4 cr)  
 or HIST 2551–Modern Japan [HIST] (4 cr)  
 or HIST 2552–History of Modern China [HIST] (4 cr)  
 or HIST 2557–History of Southeast Asia [HIST] (4 cr)  
 or HIST 3557–East Asia Since 1800 [IP] (4 cr)

##### Europe

HIST 2103–Medieval Europe [HIST] (4 cr)  
 or HIST 2151–Modern Europe [HIST] (4 cr)  
 or HIST 2704–Gender, Women, and Sexuality in Medieval Europe [SS] (4 cr)  
 or HIST 2708–Gender, Women, and Sexuality in Modern Europe [IP] (4 cr)  
 or HIST 3101–Renaissance and Reformation [HIST] (4 cr)  
 or HIST 3102–Early Modern Europe [HIST] (4 cr)  
 or HIST 3161–The Enlightenment [HIST] (4 cr)  
 or HIST 3162–The Scottish Enlightenment: Markets, Minds, and Morals [IP] (4 cr)  
 or HIST 3176–Berlin as a Site of History [HIST] (4 cr)  
 or HIST 3177–Virtue and Vice in Amsterdam: From the Golden Age to the Global Age [IP] (4 cr)  
 or HIST 3204–Nazi Germany [HIST] (4 cr)  
 or HIST 3207–The Crusades [IP] (4 cr)  
 or HIST 3209–Modern Germany [HIST] (4 cr)  
 or HIST 3211–Modern France [HIST] (4 cr)  
 or HIST 3213–Modern Britain: Society, Culture and Politics [HIST] (4 cr)

##### Middle East/Africa

HIST 3008–The Making of the Islamic World [HDIV] (4 cr)

#### Latin America

HIST 1601–Latin American History: A Basic Introduction [IP] (4 cr)  
 or HIST 2608–History of Cuba: From Colony to Revolutionary State [HIST] (4 cr)  
 or HIST 2609–History of Brazil: From Sugar to Sugar Cars [HIST] (4 cr)  
 or HIST 3601–Great Books in Latin American History [IP] (4 cr)  
 or HIST 3612–Social Revolution in 20th-Century Latin America [HIST] (4 cr)  
 or HIST 3613–U.S.-Latin American Relations in Historical Perspective [IP] (4 cr)  
 or HIST 3614–Race and Ethnicity in Latin America [HDIV] (4 cr)

#### Native American/Indigenous

or HIST 2251–American Indians and the United States: A History [HDIV] (4 cr)  
 or HIST 2451–The American West [HIST] (4 cr)  
 or HIST 3359–Native Strategies for Survival, 1880-1920 [HDIV] (4 cr)

#### United States

HIST 1301–Introduction to U.S. History [HIST] (4 cr)  
 or HIST 1402–Gender, Women, and Sexuality in American History [HDIV] (4 cr)  
 or HIST 2352–The U.S. 1960s [HIST] (4 cr)  
 or HIST 2452–Minnesota History [HIST] (4 cr)  
 or HIST 3303–Creation of the American Republic [HIST] (4 cr)  
 or HIST 3304–Race, Class, and Gender in American History [HDIV] (4 cr)  
 or HIST 3351–The U.S. Presidency Since 1900 [SS] (4 cr)  
 or HIST 3353–World War II [HIST] (4 cr)  
 or HIST 3355–United States in Transition, 1877-1920 [HIST] (4 cr)  
 or HIST 3356–Civil Rights Movement, 1954-1974 [HIST] (4 cr)  
 or HIST 3358–Civil War and Reconstruction [HIST] (4 cr)  
 or HIST 3360–American Experience in World War II [HIST] (4 cr)  
 or HIST 3361–An Environmental and Geographic History of the United States [ENVT] (4 cr)  
 or HIST 3453–The American Presidency, 1789-1900 [HIST] (4 cr)  
 or HIST 3455–American Immigration [HIST] (4 cr)  
 or HIST 3456–History of Religion in America [HIST] (4 cr)  
 or HIST 3464–History of Suburban America [HIST] (4 cr)  
 or HIST 3465–History of the American Family [HIST] (4 cr)

## History Minor

No grades below C–are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

HIST 1111–Introduction to World History [HIST] (4 cr)

#### Electives

An additional 16 credits in history of which 12 credits are at 2xxx or above. There should be evidence of work in at least three (3) of the following areas: Asia, Europe, Middle East/Africa, Latin America, Native America/Indigenous, and United States. Directed Studies (X993) may be used in any of the areas if content is appropriate and approved by their major adviser.

Take 16 or more credits including exactly 3 sub-requirements(s) from the following:

#### Geographical Areas–1xxx

Take at most 4 credits from the following:

##### Asia

HIST 1501–Introduction to East Asian History: China, Japan, and Korea before 1800. [HIST] (4 cr)

##### Latin America

HIST 1601–Latin American History: A Basic Introduction [IP] (4 cr)

**United States**

HIST 1301—Introduction to U.S. History [HIST] (4 cr)  
 or HIST 1402—Gender, Women, and Sexuality in American History [HDIV] (4 cr)

**Geographical Areas—2xxx or above**

Take 12 or more credits from the following:

**Asia**

HIST 2551—Modern Japan [HIST] (4 cr)  
 or HIST 2552—History of Modern China [HIST] (4 cr)  
 or HIST 2557—History of Southeast Asia [HIST] (4 cr)  
 or HIST 3557—East Asia Since 1800 [IP] (4 cr)

**Europe**

HIST 2103—Medieval Europe [HIST] (4 cr)  
 or HIST 2151—Modern Europe [HIST] (4 cr)  
 or HIST 2704—Gender, Women, and Sexuality in Medieval Europe [SS] (4 cr)  
 or HIST 2708—Gender, Women, and Sexuality in Modern Europe [IP] (4 cr)  
 or HIST 3101—Renaissance and Reformation [HIST] (4 cr)  
 or HIST 3102—Early Modern Europe [HIST] (4 cr)  
 or HIST 3161—The Enlightenment [HIST] (4 cr)  
 or HIST 3162—The Scottish Enlightenment: Markets, Minds, and Morals [IP] (4 cr)  
 or HIST 3176—Berlin as a Site of History [HIST] (4 cr)  
 or HIST 3177—Virtue and Vice in Amsterdam: From the Golden Age to the Global Age [IP] (4 cr)  
 or HIST 3204—Nazi Germany [HIST] (4 cr)  
 or HIST 3207—The Crusades [IP] (4 cr)  
 or HIST 3209—Modern Germany [HIST] (4 cr)  
 or HIST 3211—Modern France [HIST] (4 cr)  
 or HIST 3213—Modern Britain: Society, Culture and Politics [HIST] (4 cr)

**Middle East/Africa**

HIST 3008—The Making of the Islamic World [HDIV] (4 cr)

**Latin America**

HIST 2608—History of Cuba: From Colony to Revolutionary State [HIST] (4 cr)  
 or HIST 2609—History of Brazil: From Sugar to Sugar Cars [HIST] (4 cr)  
 or HIST 3601—Great Books in Latin American History [IP] (4 cr)  
 or HIST 3612—Social Revolution in 20th-Century Latin America [HIST] (4 cr)  
 or HIST 3613—U.S.-Latin American Relations in Historical Perspective [IP] (4 cr)  
 or HIST 3614—Race and Ethnicity in Latin America [HDIV] (4 cr)

**Native American/Indigenous**

or HIST 2251—American Indians and the United States: A History [HDIV] (4 cr)  
 or HIST 2451—The American West [HIST] (4 cr)  
 or HIST 3359—Native Strategies for Survival, 1880-1920 [HDIV] (4 cr)

**United States**

HIST 2352—The U.S. 1960s [HIST] (4 cr)  
 or HIST 2452—Minnesota History [HIST] (4 cr)  
 or HIST 3303—Creation of the American Republic [HIST] (4 cr)  
 or HIST 3304—Race, Class, and Gender in American History [HDIV] (4 cr)  
 or HIST 3351—The U.S. Presidency Since 1900 [SS] (4 cr)  
 or HIST 3353—World War II [HIST] (4 cr)  
 or HIST 3355—United States in Transition, 1877-1920 [HIST] (4 cr)  
 or HIST 3356—Civil Rights Movement, 1954-1974 [HIST] (4 cr)  
 or HIST 3358—Civil War and Reconstruction [HIST] (4 cr)  
 or HIST 3360—American Experience in World War II [HIST] (4 cr)  
 or HIST 3361—An Environmental and Geographic History of the United States [ENV] (4 cr)  
 or HIST 3453—The American Presidency, 1789-1900 [HIST] (4 cr)  
 or HIST 3455—American Immigration [HIST] (4 cr)  
 or HIST 3456—History of Religion in America [HIST] (4 cr)  
 or HIST 3464—History of Suburban America [HIST] (4 cr)

or HIST 3465—History of the American Family [HIST] (4 cr)

**Teacher Preparation Requirements**

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

**History Course Descriptions**

**HIST 1015. Topics and Problems in World History.** (HIST; 4 cr [max 8 cr]; A-F only; fall, spring, every year)  
 Examination of special topics in world history. Course is built around specific topics, such as genocide in the 20th century or global approaches to environmental history, and emphasizes how historians work, pose questions, use sources, and engage in debate.

**HIST 1111. Introduction to World History.** (HIST; 4 cr; =[HIST 1101, HIST 1102]; fall, spring, every year)  
 Methods, themes, and problems in the study of world history.

**HIST 1301. Introduction to U.S. History.** (HIST; 4 cr; fall, every year)  
 Methods, themes, and problems in the study of the history of the United States.

**HIST 1402. Gender, Women, and Sexuality in American History.** (HDIV; 4 cr; fall, spring, offered periodically)

Themes and methods in the history of women in the United States. Topics may include women in the colonial era; American Indian, African American, and immigrant women; sex roles; women and work, family, politics, the law, and religion.

**HIST 1501. Introduction to East Asian History: China, Japan, and Korea before 1800.** (HIST; 4 cr; fall, offered periodically) Examination of the social, political, economic, technological, and cultural changes in East Asia before 1800. Possible sub-themes include the rise of the Confucian world order, the spread of Buddhism, and East Asian interactions with the outside world. Discussion of changing perceptions of gender.

**HIST 1601. Latin American History: A Basic Introduction.** (IP; 4 cr; spring, odd years)  
 Methods, themes, and problems in the study of Latin American history.

**HIST 1811. A History of You(th).** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
 Why does the behavior of young people attract so much attention and anxiety? Why does the stage between childhood and a fully recognized adulthood carry such significance in our collective consciousness? Engage in a historical analysis of what youth has signified, using source materials from Plato to pop culture. Along the way, engage chronologically with the emergence of the categories of childhood and youth and thematically with the relationship between youth and a multitude of social categories and phenomena (for example, politics, media, consumption, and sexuality). Requires extensive reading, active classroom participation, and the completion of a research project and presentation with both individual and group components.

**HIST 1812. FIRE!: An introductory Seminar to American Environmental History.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
 One of the primary ways in which people have manipulated their environments has been through the burning of fossil fuels. Indigenous people, for instance, used fire to clear land, to improve soil quality, and to drive game. Coal powered the Industrial Revolution and oil provided the energy necessary for the Automobile Age. The impact of using energy in this way is today obvious. This course is organized around the topic of fire and uses this theme to examine core issues in American Environmental History. Topics might include: American Indian peoples and fire, burning and early agriculture, coal and industrialization, the Age of the Automobile, incineration and the problem of waste, and forest arson as a mode of political protest.

**HIST 1816. Explaining the Inexplicable: 20th Century Genocides.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
 Examination of a couple of the contemporary world's largest and most important dilemmas. Why did we see all the now familiar campaigns of mass murder based on racial and ethnic hatred in the last century, a time of incredible scientific progress? Why, in addition, have we been so slow to learn from this experience? Why, in short, have we been so unsuccessful in honoring our pledge of "never again?" Through history, memoir, and film, examine these questions and try to understand and answer them from both an historical and a moral perspective.

**HIST 1817. Introduction to American Political History and Television.** (1C; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Introduction to the role that television has played (and continues to play) within American political history. As one of the most powerful forms of communication in the United States, television has impacted how Americans view their political leaders and their policies. Topics include political advertising, satire and comedy programming, the news, and children's programming.

**HIST 2003. Public History.** (HIST; 4 cr; spring, offered periodically)  
Introduction to the many ways historians conduct research and present historical topics to public audiences. Public historians, who typically come from a traditional academic discipline, utilize their knowledge in such public settings as museums, archives, historic sites, historical societies, and federal agencies. Examine a number of themes ranging from oral histories and historical reenactments to websites and electronic media. Explore what is public history, who practices it, the role of audience, the tension between history and memory, and the ethical concerns that influence public history practice. A particular emphasis is the representation of racial and ethnic communities and the controversies that have emerged in public history practice and scholarship about the representation of "the other."

**HIST 2103. Medieval Europe.** (HIST; 4 cr; fall, spring, offered periodically)  
Survey of historical developments in Europe from about 500 to 1500.

**HIST 2151. Modern Europe.** (HIST; 4 cr; fall, spring, offered periodically)  
History of modern Europe emphasizing political, economic, social, and intellectual developments since 1789.

**HIST 2251. American Indians and the United States: A History.** (HDIV; 4 cr; spring, every year)  
The experience of the original Americans and their interaction with later immigrants.

**HIST 2352. The U.S. 1960s.** (HIST; 4 cr; fall, even years)  
History of the United States in the 1960s. Backgrounds to the 1960s; political and cultural issues of the decade; the Kennedy promise, civil rights and other movements, Vietnam war, counterculture, conservative backlash, and legacy.

**HIST 2451. The American West.** (HIST; 4 cr; =[HIST 3451]; fall, even years)  
Overview of the history of the American West up to the 21st century. While many scholars have argued that the "West" was merely a necessary process of national expansion, others argue that it is a very significant region—the most culturally and ecologically diverse region in the country. Discussion of these major historical interpretations of the American West and examination of how people have understood this vast region as a cultural icon of national identity. Work through various definitions of the West and identify how political issues of the environment, international borderlands, and gender and race relations have significantly influenced the United States for many generations. Through lectures, readings, and discussion, examine Western history chronologically while also covering other major themes including federalism, the mythic West, tourism, ranching and agriculture, urban and suburban areas, film, and religion.

**HIST 2452. Minnesota History.** (HIST; 4 cr; fall, spring, offered periodically)  
Examination of the social, cultural, and political history of Minnesota with emphases on American Indian and European-American conflict, immigration and ethnicity, the development of political culture, and the changing nature of regional identity.

**HIST 2551. Modern Japan.** (HIST; 4 cr; fall, spring, offered periodically)  
The history of Japan from the foundation of the Tokugawa Shogunate until the present. Special attention to issues of gender, nationalism, and modernity.

**HIST 2552. History of Modern China.** (HIST; 4 cr; spring, offered periodically)  
Study of the history of China from the foundation of the Qing dynasty in the 1600s until the present. Special attention to issues of gender, nationalism, and modernity.

**HIST 2557. History of Southeast Asia.** (HIST; 4 cr; spring, offered periodically)  
A broad survey of Southeast Asia's civilization and its modern challenges. Emphasizes recent colonialism, nationalism, and postwar development.

**HIST 2608. History of Cuba: From Colony to Revolutionary State.** (HIST; 4 cr; fall, spring, offered periodically)  
A survey of the history of Cuba from Spanish colonization to the present, with emphasis on the 19th and 20th centuries. Topics include colonization, slavery, imperialism, nationalism, and the Cuban Revolution.

**HIST 2609. History of Brazil: From Sugar to Sugar Cars.** (HIST; 4 cr; fall, even years)  
Examination of Brazilian history from Portuguese colonization in the early 1500s to its current status as a growing world economic power. Topics include Portuguese colonial rule, independence and the creation of the Brazilian Empire in the nineteenth century, the end of the Brazilian monarchy and the emergence of the oligarchic republic, the rise of the populist state in the mid-twentieth century, military dictatorship during the Cold War, and the return to democracy and Brazil's rise to world-power status. Additional topics include the Amazon and environmental history, indigenous history, Afro-Brazilian history, the U.S.-Brazilian relationship from a historical perspective, Brazilian economic development, how Brazilians are coping with the socioeconomic changes in their society, and how they perceive their role in the world.

**HIST 2704. Gender, Women, and Sexuality in Medieval Europe.** (SS; 4 cr; spring, odd years)  
Analysis of the history of European women and gender systems as constructed during the Middle Ages (c. 500-1500).

**HIST 2708. Gender, Women, and Sexuality in Modern Europe.** (IP; 4 cr; fall, spring, offered periodically)  
Examination of the forces that have shaped the lives of European women since 1600 and analysis of how changes in the structures of power and authority—religious, political, social, familial—affected the choices available to them. Students engage critically with the question of what bringing gender to the forefront of the study of European history has to teach them. Students gain an understanding of many of the underpinnings of American society, which has been deeply affected by European patterns of thought about women and their place in the world.

**HIST 3008. The Making of the Islamic World.** (HDIV; 4 cr; fall, even years)  
Examines the origins, spread, and impact of Islamic civilization from the 6th through 15th centuries with particular emphasis upon political, religious, and intellectual developments.

**HIST 3101. Renaissance and Reformation.** (HIST; 4 cr; spring, odd years)  
Examination of western European history and historiography between 1350 and 1600 with emphasis on cultural "renaissances" and religious "reformations."

**HIST 3102. Early Modern Europe.** (HIST; 4 cr; fall, spring, offered periodically)  
Survey of historical developments in Europe from about 1350 through the 18th century.

**HIST 3161. The Enlightenment.** (HIST; 4 cr; spring, odd years)  
The intellectual ferment of the Enlightenment has been given the credit and the blame for all things modern—from the concept of human rights and the democracies it has engendered to the subversion of those rights in the totalitarian regimes of the 20th century. Exploration of the ideas of the Enlightenment and their political context and attempt to answer the question of how such an important development in human history can be viewed in such contradictory ways.

**HIST 3162. The Scottish Enlightenment: Markets, Minds, and Morals.** (IP; 4 cr; =[PHIL 3162]; summer, offered periodically)  
Same as Phil 3162. Study of the philosophy and history of the Scottish Enlightenment. Focus on its original setting through analysis and discussion of primary texts and scholarly interpretations, guest lectures, and small-group discussions with recognized experts in the study of the Scottish Enlightenment. Includes visits to historically significant cities and sites.

**HIST 3176. Berlin as a Site of History.** (HIST; 4 cr; A-F only; summer, offered periodically)  
A study abroad course focusing on the intersection of space and history in the vibrant city of Berlin, Germany. Themes include Berlin in flows of capital and power, Berlin as a site of everyday life, and Berlin as a site of historical memory and contests over it. No knowledge of German is necessary.

**HIST 3177. Virtue and Vice in Amsterdam: From the Golden Age to the Global Age.** (IP; 4 cr; summer, offered periodically)  
The "Golden Age" of the 17th-century Dutch Republic and the post-World War II period in the Netherlands represent times of intensive economic

growth, linked closely to international involvement, and of struggles to maintain social stability. Definitions of vice and virtue in both periods have been deeply intertwined with the experiences of prosperity and the challenges it has posed to established forms of governance, as well as understandings of what constitutes membership in a national community and who merits it. Topics include religious identities of the early modern period; social welfare practices of the Dutch Republic; the Dutch East India Company, maritime prosperity, and colonial exploitation; the Dutch Republic as a refuge for radical thought; Jews in Amsterdam; social movements since World War II, including GLBT rights; postcolonial politics and immigration; Islam in the Netherlands; the legality of prostitution and the official tolerance of drugs.

**HIST 3181. The Study of History: Schools, Rules, and Tools.** (HIST; 4 cr; prereq #; no credit for students who have received cr for Hist 2001; spring, every year)

Introduction to historical research methods and 20th-century historiography. How to evaluate and employ primary and secondary sources, to cite evidence, and to develop critical historical arguments in a research project. Exploration of key transformations within the field of history, surveying various schools of thought, and assessing the specific advantages and challenges of the approaches. Topics may include Freudian and Marxist interpretations, the Annales school, quantitative analysis, anthropological and sociological approaches, and gender and postcolonial theory.

**HIST 3204. Nazi Germany.** (HIST; 4 cr; fall, odd years)

History of Nazi Germany. Social and political origins, Nazi rule in the 1930s, the "final solution," World War II, and Germany's attempt to assess this era in its history.

**HIST 3207. The Crusades.** (IP; 4 cr; spring, even years)

Explores the historical contexts and consequences of the European Crusades between the 11th century and early modern period, including the perspective of European Jews, Turkish and Arabic Muslims, and Byzantine and Near Eastern Christians.

**HIST 3209. Modern Germany.** (HIST; 4 cr; spring, odd years)

Examination of German history from the development of German national ideas through unification and consolidation of the modern German state in 1871 and through its re-unification at the end of the 20th century. Examines one of the most fascinating and tumultuous periods in German and European history, why the attempt to understand the German past has occupied so many historians, and why the debates surrounding that attempt have been so contentious. Sources include writings by established historians of Germany, novels, films, and music.

**HIST 3211. Modern France.** (HIST; 4 cr; fall, even years)

Examination of French culture and history from the Revolution (1789) to the present. The ways in which successive governments, from Napoleon's empire through the Fifth Republic, have come to terms with legacies of the Revolution such as national citizenship, individual rights, and the politicization of women.

**HIST 3213. Modern Britain: Society, Culture and Politics.** (HIST; 4 cr; spring, offered periodically)

Examination of the history of modern Britain and its empire since the 17th century. Topics include the growth of Britain as a world power through imperialism and industrialization, the challenges of shaping a modern polity, and the 20th-century shifts that reduced its global profile.

**HIST 3303. Creation of the American Republic.** (HIST; 4 cr; fall, spring, offered periodically)

Examination of the history of the United States from the beginning of the Seven Years' War in 1754 to the end of the War of 1812. The origins of the nation and the political, cultural, and social changes that accompanied the birth and early years of the American Republic. Focus on the political and social history of the American Revolution. Other topics include women in revolutionary America, the retrenchment of slavery, indigenous people and early Indian policy, religion and revivalism, the constitutional crisis, and the early presidencies.

**HIST 3304. Race, Class, and Gender in American History.** (HDIV; 4 cr; fall, spring, offered periodically)

The themes of race, class, and gender are explored in-depth throughout the semester. Students gain a new awareness about historiography and theories that highlight this growing subfield of American history. Prominent topics covered in lecture and readings include colonization, slavery, suffrage, immigration, sovereignty, labor, ghettoization, art, literature, culture, and the rise of self-determination. Study the intersection of race, class, and gender relations through multiple perspectives of region, ideology, political-economy, and religion.

**HIST 3351. The U.S. Presidency Since 1900.** (SS; 4 cr; fall, even years)  
History of the 20th-century U.S. presidency. Brief consideration of the Presidency before 1900, analysis of performance of presidents since 1900 in roles of chief executive, commander-in-chief, chief diplomat, and chief of state during an era of enlarged governmental functions at home and world power abroad.

**HIST 3353. World War II.** (HIST; 4 cr; fall, spring, offered periodically)  
Origins, political and military aspects of the war in Europe and Asia, domestic mobilization, the Holocaust and Atomic Bomb, aftermath.

**HIST 3355. United States in Transition, 1877-1920.** (HIST; 4 cr; spring, odd years)  
Topics, themes, and problems in U.S. history, 1877 to 1920.

**HIST 3356. Civil Rights Movement, 1954-1974.** (HIST; 4 cr; fall, spring, offered periodically)

Background of the Civil Rights movement, emergence of the theory and practice of nonviolence, various Civil Rights groups, role of women, legislative and other accomplishments of the movement, its aftermath and influence.

**HIST 3358. Civil War and Reconstruction.** (HIST; 4 cr; fall, spring, offered periodically)

Origin, context, and significance of the Civil War and Reconstruction.

**HIST 3359. Native Strategies for Survival, 1880-1920.** (HDIV; 4 cr; fall, odd years)

Exploration of the events and policies that sought to eliminate American Indian communities and cultures and the strategies that American Indians developed to survive. Students gain insight into a pivotal time for the "incorporation" of the United States and ongoing tensions between unity and diversity that characterize the nation's political economy and social structure. Paradoxes under scrutiny include the degree to which policies claiming to emancipate actually imprisoned and prisons became homelands.

**HIST 3360. American Experience in World War II.** (HIST; 4 cr; prereq jr or sr or #; spring, offered periodically)

Seven former American Presidents were veterans of World War II and over 175,000 books have been published on this subject alone. Arguably this one event has commanded more attention by writers, filmmakers, and academics than any other modern historical event. For decades historians have also debated the significance of World War II. After the conclusion of the war, the worldwide devastation and loss of life had reached apocalyptic proportions and new military technologies, like the atom bomb, forever altered the American experience. Scientists and intellectuals, such as Albert Einstein, emerged as new celebrities. Literally every sector of American society and culture had been transformed by World War II. Investigate these questions and more throughout the semester. It is important to note that this course is not a strict military history of the European and Pacific campaigns. Instead, the purpose of this class is to challenge students to grapple with the historic origins and legacies of the war.

**HIST 3361. An Environmental and Geographic History of the United States.** (ENVT; 4 cr; no credit for students who have received cr for Hist 2361; fall, spring, offered periodically)

A broad examination of how humans interacted with their natural world throughout American history. Combined emphasis on cultural ecology (the study of how various cultural groups shaped the American landscape) with political ecology (the role of the nation's political economy in driving environmental change). Possible topics include: the Columbian Exchange, European and American Indian conflict, Thoreau and the creation of an environmental ethic, the slaughter of the bison as an ecological tragedy, urbanization and environmental racism, conservation as a political movement and the development of environmental policy, eco-feminism, American religion and the environment, the politics of global climate change.

**HIST 3453. The American Presidency, 1789-1900.** (HIST; 4 cr; fall, spring, offered periodically)

Growth and development of the U.S. presidency during its first century. Emphasis on selected presidencies such as those of George Washington, Thomas Jefferson, Andrew Jackson, James K. Polk, Abraham Lincoln, and William McKinley.

**HIST 3455. American Immigration.** (HIST; 4 cr; spring, offered periodically)

The role of voluntary migration in U.S. history from the late 18th century to the present. Emphases on settlement, ethnicity, nativism, transnational issues, and immigration law. Possible topics include European immigrants and "whiteness," restriction of immigration from Asia, ethnicity and U.S.

foreign and military policy, and the varieties of immigration, legal and undocumented, since 1965.

**HIST 3456. History of Religion in America.** (HIST; 4 cr; fall, spring, offered periodically)

The history of religion in American life from the perspective of ordinary Americans. Religious diversity receives special emphasis. Topics may include New England witchcraft, the First and Second Great Awakenings, American Indian belief systems, nativism and Anti-Catholicism, religion and politics, immigrant religion and new fundamentalist movements.

**HIST 3464. History of Suburban America.** (HIST; 4 cr; fall, spring, offered periodically)

Overview of development of the suburban landscape within the United States, from the beginning of the 19th century to the present, with primary focus on post-World War II development. Topics include the importance of nature to the idea of a suburb, the role of technology (such as streetcars and automobiles) in development, racial and ethnic diversity and exclusion within the landscape, the effect of suburbs on gender roles, and the political and cultural relationship between the city and the suburb. Examine how the suburb is depicted within popular culture, including films, television programming, music, and literature of the past and present.

**HIST 3465. History of the American Family.** (HIST; 4 cr; spring, offered periodically)

Examination of the history of the American family from the colonial period to the present. One focus is demographic and explores changes in family size and structure due to economic change and modernization. Also examined are altered relationships within families, as the nuclear family became more democratic and affectionate, as the position of women within American life changed, as people began to practice different methods of family limitation, and as childhood and adolescence were recognized as distinctive life course phases. Additional topics include the role of class and cultural differences in defining family systems, shifting gender and sexual norms, the rise of unrelated individuals, and the aging of the population, etc.

**HIST 3557. East Asia Since 1800.** (IP; 4 cr; fall, spring, offered periodically)

Examination of the social, political, economic, technological, and cultural changes in East Asia [China, Japan, and Korea] since 1800.

**HIST 3561. The Pacific War in East Asia.** (HIST; 4 cr; fall, offered periodically)

Political, military, social, and cultural history of the Pacific war in East Asia. Exploration of different perspectives and wartime experiences in China, Japan, and the Japanese empire (including Korea). Emphasis on the impact of the war as a watershed period in the history of East Asia. Topics may include the Rape of Nanjing, the bombing of Hiroshima, the Manchurian Incident, and the creation of Manchukuo, collaboration, and resistance, wartime mobilization and propaganda, Zen nationalism, and comparisons with Nazi Germany and Vichy France. Films, memoirs, and fiction will augment academic texts.

**HIST 3601. Great Books in Latin American History.** (IP; 4 cr; fall, every year)

A look at Latin American history through great books.

**HIST 3612. Social Revolution in 20th-Century Latin America.** (HIST; 4 cr; fall, offered periodically)

Examination of social revolution in 20th-century Latin America. Particular attention paid to social revolution in Mexico, Bolivia, Cuba, and Nicaragua. Populism, democratic attempts at social revolution, and counterrevolution in other parts of Latin America also considered. Key issues include imperialism, capitalism, communism, nationalism, and the Cold War.

**HIST 3613. U.S.-Latin American Relations in Historical Perspective.** (IP; 4 cr; fall, spring, offered periodically)

Examination of the history of U.S.-Latin American relations from U.S. independence to the present. Focuses on the political, economic, social, and cultural relationships between the two.

**HIST 3614. Race and Ethnicity in Latin America.** (HDIV; 4 cr; fall, spring, offered periodically)

Explore issues of race and ethnicity in Latin America from a historical perspective. Covering the colonial and national periods, examine how ideas of race and ethnicity have intersected with political, economic, and socio-cultural developments in the region. Consider the ways in which race, class, and gender have intersected in Latin America.

**HIST 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**HIST 4501. Senior Research Seminar in History.** (4 cr; A-F only; prereq 2001, #; fall, spring, every year)  
Advanced historical thematic analysis and guided research resulting in an original, substantial paper or project.

**HIST 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Honors Program

### *Interdisciplinary Studies—Academic Dean*

The Honors Program represents an opportunity for UMM students to pursue an interdisciplinary and interdivisional curriculum and work toward graduation with honors. All UMM students are eligible to participate in the Honors Program.

Honors courses are limited to a class size of 15. The elective courses examine a particular topic from an interdisciplinary perspective. The courses are often team-taught by faculty from different UMM academic divisions and concern subjects of special interest to the faculty who design them.

Further information about the Honors Program may be obtained from the Academic Center for Enrichment (ACE) office at [www.morris.umn.edu/ACE](http://www.morris.umn.edu/ACE).

### Admission Requirements

Students normally apply to the program in spring semester of their freshman year and begin coursework sophomore year. While everyone may apply, academic success in the fall semester, faculty recommendations, and a short essay may be used to limit the number of students to those with the proven motivation and ability to likely succeed in the program. Applications are available at the Academic Center for Enrichment, 5 Student Center.

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#).

### Program Requirements

**Honors Capstone Project:** It is the responsibility of the student to secure a project adviser for the honors capstone project, identify two other faculty for the panel in consultation with the project adviser, and register for at least 2 credits of IS 4994H—Honors Capstone Project. Students should submit the completed project to the Honors Program director and panel members by April 1 and arrange for the defense.

To qualify for a degree with honors, a student must have completed 60 or more semester credits at the University.

A minimum GPA of 3.50 in all University of Minnesota, Morris courses is required. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

IS 2001H is usually completed in fall of the sophomore year.

IS 2001H—Honors: Traditions in Human Thought [HUM] (2 cr)

IS 4994H—Honors Capstone Project (2 cr)

### Elective Courses

Any fully-approved IS 3xxxH course may be used to fulfill the 8 credit elective requirement.

Two of the eight elective credits may also be completed by writing an interdisciplinary paper related to co-curricular engagement, such as an internship or study abroad experience. Students complete an Honors Co-Curricular Independent Study form and register for IS 3991H. These projects are subject to assessment by a committee of faculty members.

*Take 8 or more credits from the following:*

IS 3111H—Honors: The End of the World as We've Known It: The Apocalypse Then and Now [SS] (2 cr)

- IS 3203H—Honors: A Cross-Section of the Enlightenment [HIST] (2 cr)
- IS 3204H—Honors: Ecological Health and the Sustainability of Common-Property Resources [ENVT] (2 cr)
- IS 3206H—Honors: Introduction to Game Theory [M/SR] (2 cr)
- IS 3209H—Honors: Apocalypse Now? The Science and Policy of Preparing for a Catastrophe [ENVT] (2 cr)
- IS 3211H—Honors: Republic or Empire? The American 1890s [HIST] (2 cr)
- IS 3212H—Honors: Global Encounters and the Making of the Contemporary World, 1450 to the Present [HDIV] (2–4 cr)
- IS 3214H—Honors: Evolution and Culture of Human Aggression [HUM] (2 cr)
- IS 3215H—Honors: Sagas before the Fall: Culture, Climate, and Collapse in Medieval Iceland [ENVT] (2 cr)
- IS 3216H—Honors: Perspectives on Disability in Contemporary American Life [HDIV] (2 cr)
- IS 3217H—Honors: The Trial of Galileo [HIST] (2 cr)
- IS 3234H—Honors: Intersections of Art and Science [FA] (2 cr)
- IS 3235H—Honors: Politics and Film [HUM] (2 cr)
- IS 3236H—Honors: Representations of Writers and Artists [HUM] (2 cr)
- IS 3237H—Honors: The Power of Place: An Interdisciplinary Approach to Where We Live [ENVT] (2 cr)
- IS 3238H—Honors: In Search of Nietzsche [IP] (4 cr)
- IS 3239H—Honors: The Anatomy of Development and the "Common Good": Sardar Sarovar Dam in Gurjurat, India [SS] (2 cr)
- IS 3240H—Honors: Proud Decade or Dark Age? The American 1950s [HIST] (2 cr)
- IS 3241H—Honors: Worldviews [SCI] (4 cr)
- IS 3242H—Honors: Two Cosmological Poets: Dante and Lucretius [IP] (2 cr)
- IS 3243H—Honors: Dialogues and the Ancient World [HUM] (2 cr)
- IS 3244H—Honors: Fascism, the Resistance, and Their Legacy in Contemporary Italy [IP] (2 cr)
- IS 3245H—Honors: Archaeology Mythbusting [SS] (2 cr)
- IS 3247H—Honors: Heroes of Ancient Greece and Rome [HUM] (2 cr)
- IS 3991H—Honors Co-Curricular Independent Study (1–2 cr)

## Honors Course Descriptions

**IS 2001H. Honors: Traditions in Human Thought.** (HUM; 2 cr; prereq participation in the Honors Program or #; fall, every year)

A study of a selection of significant works from history, literature, philosophy, science, and religion across continents from the earliest writings to the present day. Critical reading, writing, and discussion in an interdisciplinary context are emphasized.

**IS 3111H. Honors: The End of the World as We've Known It: The Apocalypse Then and Now.** (SS; 2 cr; prereq participation in Honors Program or #; spring, offered periodically)

Exploration of the occasions and representations of apocalyptic views, focusing on the historical, political, and psychological implications. Antecedents and effects of end-of-the-world prophecies are explored through the use of popular culture (e.g. music, science fiction, other media), writings from across cultural and religious frames of reference, and various historical, political, and psychological resources.

**IS 3203H. Honors: A Cross-Section of the Enlightenment.** (HIST; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)

A cross-section of the cultural and intellectual history of the 18th century. Figures to be studied may include Descartes, Newton, Locke, Hume, Hobbes, Rousseau, Voltaire, Lavoisier, d'Holbach, and Blake.

**IS 3204H. Honors: Ecological Health and the Sustainability of Common-Property Resources.** (ENVT; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)

Exploration of "sustainability" from the perspective of economics and ecology. Examples might include ocean fisheries, the rain forest, the introduction of alien species, and the global climate.

**IS 3206H. Honors: Introduction to Game Theory.** (M/SR; 2 cr; prereq participation in the Honors Program, high school higher algebra or #; credit will not be granted if credit has been received for Econ 3014; fall, spring, offered periodically)

Introduction to the formal theory of strategic interaction and to the

intuitions behind the theory. Applications to a selection of problems in the natural and social sciences, such as biological evolution, tacit collusion in pricing, strategic behavior in international relations, and strategy in legislative voting.

**IS 3209H. Honors: Apocalypse Now? The Science and Policy of Preparing for a Catastrophe.** (ENVT; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)

Popular visions, policy response, and scientific underpinnings of potentially catastrophic societal problems past and present. Do we worry about the right things? How do scientists, politicians, and purveyors of popular culture assess which threats warrant attention? (two 50-min lect/disc plus multiple evening film screenings)

**IS 3211H. Honors: Republic or Empire? The American 1890s.** (HIST; 2 cr; prereq participation in the Honors Program or #; fall, spring, offered periodically)

The 1890s are often seen as a cultural watershed for the United States. Depression, political movements, and a "splendid little war" against Spain and the Philippines represent only the surface of a decade which altered aspects of race, class, gender, and literary sensibility.

**IS 3212H. Honors: Global Encounters and the Making of the Contemporary World, 1450 to the Present.** (HDIV; 2-4 cr ; prereq high school higher algebra, participation in Honors Program or #; spring, offered periodically)

An exploration of the initial interaction among the indigenous people of Africa and the Americas with the people of Europe. Parallel immediate and long-term effects of these initial encounters are identified and discussed.

**IS 3214H. Honors: Evolution and Culture of Human Aggression.** (HUM; 2 cr; prereq participation in Honors Program or #; fall, offered periodically)

Exploration of aggression in medieval literature and culture and theorization about the adaptiveness of aggression. Group and individual aggression expressed by humans living under current conditions is explored from a cultural and evolutionary perspective.

**IS 3215H. Honors: Sagas before the Fall: Culture, Climate, and Collapse in Medieval Iceland.** (ENVT; 2 cr; prereq participation in Honors Program or #; fall, offered periodically)

Exploration of the literary and physical record of society in Viking-age Iceland from its settlement during the Medieval Warm Period, through centuries of environmental degradation and changing religion, to the onset of the Little Ice Age and the end of the Icelandic free state.

**IS 3216H. Honors: Perspectives on Disability in Contemporary American Life.** (HDIV; 2 cr; prereq participation in Honors Program or #; fall, offered periodically)

Introduction to the interdisciplinary field of disability studies, which favors a social rather than medical approach to understanding difference. History and struggle for civil rights, identity issues, contemporary controversies, and exploring the frontiers of one's own interest in disability by means of a service learning project.

**IS 3217H. Honors: The Trial of Galileo.** (HIST; 2 cr; prereq participation in Honors Program or #; spring, offered periodically)

The dispute between Galileo and the Inquisition produced one of history's most notorious trials, an enduring symbol of the struggle between science and religion. Study of the complicated history behind the myth by re-enacting the trial and learning about the theology, science, and cultural politics of this tumultuous period.

**IS 3234H. Honors: Intersections of Art and Science.** (FA; 2 cr; prereq participation in Honors Program or #; spring, offered periodically)

Explores the intersection of scientific discovery and aesthetic innovation, especially the ways in which scientists and artists have influenced one another's work. Examines the ways in which these different pursuits value notions of creativity.

**IS 3235H. Honors: Politics and Film.** (HUM; 2 cr; prereq participation in Honors Program or #; spring, offered periodically)

Explores age-old questions of political science and philosophy—what is justice, what does citizenship mean, what is power, how do we relate to the "other"—through the lens of film. Examines American and foreign films and a variety of filmmakers to analyze effects of different cinematic and narrative techniques on our interpretations.

**IS 3236H. Honors: Representations of Writers and Artists.** (HUM; 2 cr; prereq participation in the Honors Program or #; fall, offered periodically)

An interdisciplinary approach is used in exploring the varied ways writers and artists are represented in books, television, film, and other media,

comparing these representations with the lives and experiences of contemporary working writers and artists.

**IS 3237H. Honors: The Power of Place: An Interdisciplinary Approach to Where We Live.** (ENVT; 2 cr; prereq participation in the Honors Program or #; spring, offered periodically)  
Goes beyond the image and myth of Lake Wobegon in examining the past and present of West Central Minnesota. An intensely interdisciplinary focus on environmental, social, political, and economic change and how modern global forces play out in this specific setting. Community leaders and experts play an active role in lecture and discussion.

**IS 3238H. Honors: In Search of Nietzsche.** (IP; 4 cr; prereq participation in Honors Program or #; fall, offered periodically)  
In this interdisciplinary course, read some books by and novels about Nietzsche in order to discover who this remarkable man was. Authors to be discussed: Nietzsche, D.H. Lawrence, Richard Wright, Milan Kundera, Nicholas Mosley, and Irvin D. Yalom.

**IS 3239H. Honors: The Anatomy of Development and the "Common Good": Sardar Sarovar Dam in Gurjrat, India.** (SS; 2 cr; prereq participation in the Honors Program or #; summer, offered periodically)  
In the Global South, the unspoken basis of development projects is that they represent an attempt to serve the "common good." This assumption masks a torrent of disagreement and conflict about whose common good is served and how a particular project in question (e.g., dams, irrigation, introduction of new farming techniques) "develops" the nation.

**IS 3240H. Honors: Proud Decade or Dark Age? The American 1950s.** (HIST; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)  
Many old enough to remember the American 1950s look back on them with nostalgia. Some do not. This seminar studies several aspects of the decade: the Cold War at home and abroad, American society, literature, and popular culture. Student presentations focus on biographical research.

**IS 3241H. Honors: Worldviews.** (SCI; 4 cr; prereq participation in the Honors Program or #; fall, spring, offered periodically)  
The Copernican Revolution, culminating in Newton's System of the World, and modern cosmology beginning with the work of Einstein, Hubble, Friedmann, Lemaître, and Gamow, culminating in the contemporary theory of the universe's accelerated expansion.

**IS 3242H. Honors: Two Cosmological Poets: Dante and Lucretius.** (IP; 2 cr; prereq participation in the Honors Program or #; fall, offered periodically)  
Explore, compare, and contrast the cosmological poems "On the Nature of Things" (De Rerum Natura, DRN) of Titus Lucretius Carus (ca. 99-55 BCE) and "The Divine Comedy" (Commedia) of Dante Alighieri (1265-1321 CE). The two poets diverge on almost every aspect of cosmological outlook and notion of the moral life and right living.

**IS 3243H. Honors: Dialogues and the Ancient World.** (HUM; 2 cr; prereq participation in the Honors Program or #; fall, offered periodically)  
Examination of a number of literary dialogues from the ancient, medieval, and early modern periods in order to better understand what the genre of dialogue is. Discussion of the literary and historical issues raised by these dialogues to explore some of the key topics of antiquity and the Middle Ages and to see how these topics continue to affect modernity.

**IS 3244H. Honors: Fascism, the Resistance, and Their Legacy in Contemporary Italy.** (IP; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)  
Study of Italian Fascism and the Resistance and the continued significance these two phenomena have for contemporary Italian identity. Primary texts include historical documents together with works of literature and film. Students have the opportunity to research the topic of resistance to oppressive regimes in other national contexts.

**IS 3245H. Honors: Archaeology Mythbusting.** (SS; 2 cr; prereq participation in the Honors program or #; spring, offered periodically)  
This honors class explores the world of pseudoarchaeology and archaeological fraud, from Atlantis to aliens. Discuss why myths and pseudoscience are so prevalent in popular representations of the past, and whose interests are served by them. Students engage in scientific outreach through the media of their choice to spread the word about archaeological truth and fiction.

**IS 3247H. Honors: Heroes of Ancient Greece and Rome.** (HUM; 2 cr; prereq participation in Honors Program or #; fall, offered periodically)  
Explore several types of heroes found in ancient Greek and Roman mythology and literature. Discuss such questions as: What makes a character a hero? What kinds of real-world issues did literary heroes help

Greeks and Romans think about? Were they meant to be emulated? How might they be relevant to the modern world?

**IS 3991H. Honors Co-Curricular Independent Study.** (1-2 cr ; A-F only; fall, spring, every year)  
Co-curricular honors credits may be earned by writing a paper that explores a co-curricular experience such as study abroad, off-campus internship, national student exchange, service-learning, or directed research. Students pursuing this option must seek pre-approval. Projects are directed and assessed by the Honors Director.

**IS 4994H. Honors Capstone Project.** (2 cr; fall, spring, every year)  
A substantial scholarly or creative interdisciplinary work designed by the student working cooperatively with a project adviser. Upon completion, the project is defended before a panel of faculty from different disciplines. Successful completion of the honors capstone project is one of the requirements for graduating from UMM "with honors."

## Human Services (HMSV)

### *Division of the Social Sciences*

The Human Services major provides students with an understanding of the individual, the family, the community, institutions, and the systems that are set up to serve these individuals and groups. Students will learn how individuals are in constant interaction with their environments, communities, and institutions. They also will learn how socioeconomic and political environments influence individuals, families, and communities. Human service workers carry out many different roles, from case management and intervention to program administration and development. Students in Human Services build professional experience for their resumes through our applied service-learning classes and/or capstone internship.

### **New learning objectives and outcomes**

Students will gain:

- Understanding of the history and structure of human services systems
- Knowledge of human development, family functioning, community dynamics, and political systems
- Basic skills in intervention with individuals, families, groups, and organizations
- Research and information literacy for effective delivery of services
- Knowledge of ethics, values, and policies guiding human services practice
- Information and technological literacy through exposure to statistical packages
- Ability to utilize databases related to human services
- Exposure to the domains that inform the field of human services

## Human Services Major

Students choose one of the HMSV sub-plans generally no later than the spring semester of their sophomore year. Students should choose an adviser with a background or specialties related to the human services area (e.g., anthropology, political science, psychology, sociology).

Students should discuss the arrangement of their internship or field experience with the HMSV internship coordinator during their junior year.

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### **Required Courses**

Courses and directed studies not listed below may be considered for addition to the HMSV major, provided the subject matter is appropriate for the program of study. Contact HMSV coordinator. Students should complete Psy 4102 during the year before their internship (PSY 4896 or IS 3796 or IS 3996).

### **Introduction to Anthropology or Sociology**

ANTH 1111—Introductory Cultural Anthropology [SS] (4 cr)  
or SOC 1101—Introductory Sociology [SS] (4 cr)

**Introduction to Psychology**

PSY 1051—Introduction to Psychology [SS] (4 cr)

**Political Science**

POL 1201—American Government and Politics [E/CR] (4 cr)

**Introduction to Human Services**

HMSV 2001—Introduction to Human Services [SS] (4 cr)

**Research Methods**

PSY 2001—Research Methods in Psychology [SS] (4 cr)

or SOC 3103—Research Methodology in Sociology (4 cr)

**Statistics**

STAT 1601—Introduction to Statistics [M/SR] (4 cr)

or STAT 2601—Statistical Methods [M/SR] (4 cr)

**Professional Ethics**

PSY 4102—Intro to Prof Conduct, Legal Constraints, Ethics in Human Services [E/CR] (2 cr)

**Field Experience/Internship***Take 4 or more credits from the following:*

IS 3796—Interdisciplinary Internship in the Helping Professions (1-16 cr)

IS 3996—Interdisciplinary Internship (1-16 cr)

PSY 4896—Field Experiences in Psychology (1-4 cr)

**Program Sub-plans**

Students are required to complete one of the following sub-plans. (Note: The honors sub-plan does not meet this requirement. Honors students are required to complete one sub-plan plus the honors sub-plan. Please see an adviser if no honors sub-plan is listed for the program.)

**General Sub-plan**

The General Human Services sub-plan provides students with an understanding of the individual, the family, the community, institutions, and the systems that are set up to serve these individuals and groups. Students will learn how individuals are in constant interaction with their environments, communities, and institutions. They also will learn how socioeconomic and political environments influence individuals, families, and communities. Human service workers carry out many different roles, from case management and intervention to program administration and development. Students in Human Services build professional experience for their resumes through our applied service-learning classes and/or capstone internship.

**Psychology Electives***Take 8 or more credits from the following:*

PSY 2581—Drugs and Human Behavior [SS] (2 cr)

PSY 3101—Learning Theory and Behavior Modification (4 cr)

PSY 3313—Psychopathology (4 cr)

PSY 3314—Child and Adolescent Psychopathology (4 cr)

PSY 3315—Parenting and Family Therapy (4 cr)

PSY 3404—Culture and Human Development [HDIV] (4 cr)

PSY 3501—Social Psychology (4 cr)

PSY 3504—Educational Psychology (4 cr)

PSY 3542—Multicultural Psychology [HDIV] (4 cr)

PSY 4101—Helping Relationships (4 cr)

**Sociology and Anthropology Electives***Take 8 or more credits from the following:*

ANTH 2202—Men and Masculinities [SS] (4 cr)

ANTH 3502—Latinos in the Midwest [SS] (4 cr)

SOC 2101—Systems of Oppression [HDIV] (4 cr)

SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)

SOC 3122—Sociology of Childhoods [HDIV] (4 cr)

SOC 3123—Sociology of Aging [HDIV] (4 cr)

SOC 3124—Sociology of Law (4 cr)

**Additional Electives**

Additional elective credits to total at least 24 elective credits.

Electives may be selected from any elective category above and the following (exclusive of the course used to fulfill the Research Methods requirement):

*Take 0–8 credits from the following:*

ANTH 3204—Culture, Food, and Agriculture [ENVT] (4 cr)

ANTH 3206—Ecological Anthropology [ENVT] (4 cr)

BIOL 2102—Human Anatomy (3 cr)

ECON 1111—Principles of Microeconomics [SS] (4 cr)

ECON 1112—Principles of Macroeconomics [SS] (4 cr)

ENST 2101—Environmental Biology [SCI-L] (4 cr)

MGMT 3701—Organizational Behavior [SS] (4 cr)

POL 2261—States: Laboratories of American Democracy [E/CR] (2 cr)

POL 3475—International Human Rights (4 cr)

PSY 2001—Research Methods in Psychology [SS] (4 cr)

PSY 2411—Introduction to Lifespan Developmental Psychology [SS] (4 cr)

PSY 3701—Organizational Behavior [SS] (4 cr)

SOC 3103—Research Methodology in Sociology (4 cr)

SOC 3131—World Population [ENVT] (4 cr)

SOC 3204—Culture, Food, and Agriculture [ENVT] (4 cr)

SSA 2102—Human Anatomy (3 cr)

**Criminal Justice Sub-plan**

The Criminal Justice Human Services sub-plan provides students with knowledge of the criminal justice system, theories of criminal behavior, law, administration, and policy. Students will also learn about the reciprocal relationship between sociocultural contexts and the criminal justice system. This knowledge will prepare students interested in pursuing careers related to the criminal justice system. Students in Human Services build professional experience for their resumes through our applied service-learning classes and/or capstone internship.

**Required Course**

POL 1202—Law and Society: Introduction to Public Law [SS] (4 cr)

**Required Electives***Take 12 or more credits from the following:*

ANTH 3701—Forensic Anthropology [SCI-L] (4 cr)

CMR 1062—Introduction to Interpersonal and Group Communication [HUM] (4 cr)

POL 3231—Constitutional Law: Civil Liberties and Civil Rights [HDIV] (4 cr)

POL 3232—Constitutional Law: Governmental Powers and Constraints [SS] (4 cr)

PSY 3501—Social Psychology (4 cr)

SOC 3124—Sociology of Law (4 cr)

SOC 3141—Sociology of Deviance [E/CR] (4 cr)

**Additional Electives**

Additional elective credits to total at least 20 elective credits.

Electives may be selected from the elective category above and the following (exclusive of the course used to fulfill the Research Methods requirement):

*Take 0–8 credits from the following:*

ANTH 2101—Biological Anthropology [SCI-L] (5 cr)

CMR 3251—Rhetorical Criticism and Free Speech Discourse [E/CR] (4 cr)

MGMT 2101—Principles of Accounting I (4 cr)

MGMT 2102—Principles of Accounting II (2 cr)

PHIL 3131—Philosophy of Law [SS] (4 cr)

POL 3411—International Law [E/CR] (4 cr)

POL 3475—International Human Rights (4 cr)

PSY 2001—Research Methods in Psychology [SS] (4 cr)

PSY 2581—Drugs and Human Behavior [SS] (2 cr)

PSY 3112—Cognition (4 cr)

PSY 3302—Personality (4 cr)

PSY 3313—Psychopathology (4 cr)

PSY 3501—Social Psychology (4 cr)

PSY 3502—Psychology and Law (4 cr)

PSY 3542—Multicultural Psychology [HDIV] (4 cr)

PSY 4101—Helping Relationships (4 cr)

SOC 2101—Systems of Oppression [HDIV] (4 cr)

SOC 3103—Research Methodology in Sociology (4 cr)

SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)



### Human Development Sub-plan

The Human Development Human Services sub-plan provides students with an understanding of psychological, social, and biological development and facilitates understanding of sociocultural contexts that influence development. The focus is on normative development, individual variations of development and abnormal development. This knowledge will prepare students interested in providing services to children and older adults. Students in Human Services build professional experience for their resumes through our applied service-learning classes and/or capstone internship.

#### Required Electives

Take 16 or more credits from the following:

- PSY 2411—Introduction to Lifespan Developmental Psychology [SS] (4 cr)
- PSY 3314—Child and Adolescent Psychopathology (4 cr)
- PSY 3404—Culture and Human Development [HDIV] (4 cr)
- PSY 3504—Educational Psychology (4 cr)
- PSY 4101—Helping Relationships (4 cr)
- SOC 3122—Sociology of Childhoods [HDIV] (4 cr)
- SOC 3123—Sociology of Aging [HDIV] (4 cr)

#### Additional Electives

Additional elective credits to total at least 24 elective credits.

Electives may be selected from the elective category above and the following (exclusive of the course used to fulfill the Research Methods requirement):

Take 0–8 credits from the following:

- ANTH 2101—Biological Anthropology [SCI-L] (5 cr)
- ANTH 2204—Anthropology of Education: Learning and Schooling in Ethnographic Perspective [SS] (4 cr)
- ANTH 3206—Ecological Anthropology [ENVT] (4 cr)
- BIOL 1111—Fundamentals of Genetics, Evolution, and Development [SCI] (3 cr)
- BIOL 2102—Human Anatomy (3 cr)
- ED 2111—Tutor-Aide Practicum (1 cr)
- ED 2121—Introduction to Education [SS] (3 cr)
- ED 2131—Foundations of Reading (2 cr)
- ENST 2101—Environmental Biology [SCI-L] (4 cr)
- HIST 3465—History of the American Family [HIST] (4 cr)
- PSY 2001—Research Methods in Psychology [SS] (4 cr)
- PSY 3101—Learning Theory and Behavior Modification (4 cr)
- PSY 3112—Cognition (4 cr)
- PSY 3401—Developmental Psychology I: Child Psychology (4 cr)
- PSY 3402—Developmental Psychology II: Adolescence and Emerging Adulthood (4 cr)
- PSY 3403—Developmental Psychology III: Adulthood and Aging [E/CR] (4 cr)
- PSY 3542—Multicultural Psychology [HDIV] (4 cr)
- SOC 2101—Systems of Oppression [HDIV] (4 cr)
- SOC 3103—Research Methodology in Sociology (4 cr)
- SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)
- SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)
- SOC 3131—World Population [ENVT] (4 cr)
- SSA 2102—Human Anatomy (3 cr)

### Social Justice Sub-plan

The Social Justice Human Services sub-plan provides students with an understanding of how to create societies or institutions based on the principles of equality and solidarity, the value of human rights, and the importance of recognizing that every human being deserves dignity. Social justice is the view that everyone deserves equal economic, political and social rights and opportunities. This major will prepare students for jobs related to community activism, human rights advocacy or non-profit administration. Students in Human Services build professional experience for their resumes through our applied service-learning classes and/or capstone internship.

#### Required Electives

Take 16 or more credits from the following:

- AMIN 1101—Introduction to American Indian Studies [HDIV] (4 cr)
- ANTH 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)
- PHIL 3121—Political Philosophy [SS] (4 cr)

- PSY 3501—Social Psychology (4 cr)
- PSY 3542—Multicultural Psychology [HDIV] (4 cr)
- SOC 2101—Systems of Oppression [HDIV] (4 cr)
- SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)
- SOC 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)

#### Additional Electives

Additional elective credits to total at least 24 elective credits.

Electives may be selected from the elective category above and the following (exclusive of the course used to fulfill the Research Methods requirement):

Take 0–8 credits from the following:

- ANTH 2101—Biological Anthropology [SCI-L] (5 cr)
- ANTH 2202—Men and Masculinities [SS] (4 cr)
- ANTH 3204—Culture, Food, and Agriculture [ENVT] (4 cr)
- ANTH 3502—Latinos in the Midwest [SS] (4 cr)
- ANTH 3602—Women in Latin America [IP] (4 cr)
- ARTH 3281—Women and Art [FA] (4 cr)
- CMR 3411—Intercultural Communication Theory and Research [HDIV] (4 cr)
- ECON 1111—Principles of Microeconomics [SS] (4 cr)
- ECON 1112—Principles of Macroeconomics [SS] (4 cr)
- ENGL 2031—Gender in Literature and Culture [HDIV] (4 cr)
- ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)
- ENGL 3332—African American Women Writers [HDIV] (4 cr)
- ENGL 3414—Feminist Theory [HDIV] (4 cr)
- ENGL 3522—Harlem Renaissance [HDIV] (4 cr)
- GWSS 3414—Feminist Theory [HDIV] (4 cr)
- HIST 2251—American Indians and the United States: A History [HDIV] (4 cr)
- HIST 2704—Gender, Women, and Sexuality in Medieval Europe [SS] (4 cr)
- HIST 2708—Gender, Women, and Sexuality in Modern Europe [IP] (4 cr)
- HIST 3008—The Making of the Islamic World [HDIV] (4 cr)
- HIST 3204—Nazi Germany [HIST] (4 cr)
- HIST 3455—American Immigration [HIST] (4 cr)
- PHIL 2111—Introductory Ethics [HUM] (4 cr)
- PHIL 2113—International and Biomedical Ethics [HUM] (4 cr)
- PHIL 2141—Analytic Feminism [HUM] (4 cr)
- POL 3475—International Human Rights (4 cr)
- PSY 2001—Research Methods in Psychology [SS] (4 cr)
- PSY 3313—Psychopathology (4 cr)
- PSY 3314—Child and Adolescent Psychopathology (4 cr)
- PSY 3404—Culture and Human Development [HDIV] (4 cr)
- PSY 4101—Helping Relationships (4 cr)
- SOC 3103—Research Methodology in Sociology (4 cr)
- SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)
- SOC 3122—Sociology of Childhoods [HDIV] (4 cr)
- SOC 3123—Sociology of Aging [HDIV] (4 cr)
- SOC 3124—Sociology of Law (4 cr)
- SOC 3204—Culture, Food, and Agriculture [ENVT] (4 cr)
- SOC 3251—African Americans [HDIV] (4 cr)
- SOC 3252—Women in Muslim Society [IP] (4 cr)
- SOC 3602—Women in Latin America [IP] (4 cr)

## Human Services Course Descriptions

**ANTH 1111. Introductory Cultural Anthropology.** (SS; 4 cr; fall, spring, every year)

Varieties and range of human behavior as revealed through the comparative study of cultures throughout the world. Concepts developed by anthropologists to explain both the unity and diversity of humankind.

**ANTH 2202. Men and Masculinities.** (SS; 4 cr; prereq some academic background or knowledge about gender and sexuality is recommended; fall, offered periodically)

Introduction to the field of men and masculinity. Examines cultural construction of masculinity in sports, family, work, media, and other social realms, with a focus on contemporary American, Chinese, Mexican, and Japanese societies. Highlights the multiple masculinities that exist, showing which are privileged and what effects this hierarchy of masculinities has. Topics include men's movements and networks, men's socialization, male sexuality and fertility, male aggression and violence,

the idea of machismo, intimacy and friendship among males, fatherhood, men's experiences with sports and work, media representations of boys and men, and the social construction of masculinities in different historical and cultural contexts. Helps students understand how masculinity as a social concept affects their relationships with the people in their lives, approaching gender problems in a rational way, and developing cultural sensitivity toward masculinity issues.

**ANTH 3204. Culture, Food, and Agriculture.** (ENVT; 4 cr; =[SOC 3204]; prereq 1111 or Soc 1101 or #; spring, every year)

Same as Soc 3204. Examines the globalization of food systems utilizing a political ecology perspective to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.

**ANTH 3206. Ecological Anthropology.** (ENVT; 4 cr; prereq 1111 or 2101 or 2103; fall, every year)

Exploration of human ecology and the causes and effects of environmental change, using data from archaeology, biological anthropology, and cultural anthropology. Emphasis on understanding the social and economic context of human adaptations to the environment. Examination of cultures worldwide and through time that have (or have failed to) live sustainably.

**ANTH 3502. Latinos in the Midwest.** (SS; 4 cr; spring, offered periodically)

Explore the history and experiences of Latinos in the Midwest United States. Starting from a historical perspective, the course examines issues including (im)migration, undocumented status, language, religion, race/ethnicity, media, and economy. A comparative framework emphasizes the unique context of migration into (rather than out of) rural communities as well as those far from a national border. Given the context of the local Morris community, the focus is particularly on rural Latino experiences.

**BIOL 2102. Human Anatomy.** (3 cr; =[SSA 2102]; prereq soph; no elective cr for biol majors or minors; fall, every year)

Same as SSA 2102. Structure of human systems at their organ and cellular level. (two 65-min lect, one 120-min lab)

**ECON 1111. Principles of Microeconomics.** (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Study of scarce resource allocation in a market economy. Supply and demand, consumer theory, theory of the firm, market structure, pricing of factors of production, income distribution and the role of government.

**ECON 1112. Principles of Macroeconomics.** (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Introduction to basic economic problems, concepts, and theoretical models. U.S. economic institutions and the economic organization of society. The role of markets in the production and distribution of societal resources. Measurement of economic performance; national income, inflation, and unemployment; competing macroeconomic theories and stabilization policies.

**ENST 2101. Environmental Biology.** (SCI-L; 4 cr; credit will not be granted if credit has been received for Biol 2101; fall, every year)

Introduction to concepts in biodiversity, evolution, and ecology. Includes basic chemistry and concepts from cell biology, molecular biology, and genetics. A one-course gateway into upper division Biology courses normally requiring the Biol 1111-2101 sequence. (two 65-min lectures, one 180-min lab)

**HMSV 2001. Introduction to Human Services.** (SS; 4 cr; prereq Psy 1051 or Soc 1101 or Anth 1111 or Pol 1201; fall, every year)

Introduces students to the field of Human Services by discussing the field's history and relevant theories. Students learn about the structure and dynamics of organizations, communities, and society as well as the nature of individuals and groups. The human conditions (e.g., aging, delinquency, crime, poverty, mental illness, physical illness, and developmental disabilities) that provide the focus for human service professionals are also discussed.

**IS 3796. Interdisciplinary Internship in the Helping Professions.** (1-16 cr [max 32 cr]; S-N only; fall, spring, summer, every year)

One-semester educational experience providing field applications in the helping professions (social work, counseling, casework, child protection services, educational settings, human resource counseling, and the like) for the student's theoretical classroom learning experiences. Prereq-Psy 4102, approved internship form; Psy 4101 recommended.

**IS 3996. Interdisciplinary Internship.** (1-16 cr [max 32 cr]; S-N only; fall, spring, summer, every year)

One-semester educational experience in a work environment providing field applications for the student's theoretical classroom learning experiences.

**MGMT 3701. Organizational Behavior.** (SS; 4 cr; =[PSY 3701]; prereq Stat 1601 or Stat 2601, jr or sr; fall, spring, offered periodically)

Same as Psy 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

**POL 1201. American Government and Politics.** (E/CR; 4 cr; fall, spring, every year)

Analysis of principles, organization, procedures, and powers of government in the United States. The federal system, national constitution, civil and political rights, party system; nature, structure, powers, and procedures of legislative, executive, and judicial departments of the national government.

**POL 2261. States: Laboratories of American Democracy.** (E/CR; 2 cr; prereq 1201 or #; no credit for students who have received credit for Pol 3261; spring, offered periodically)

Examination of the ways American democracy functions in the states. Analysis of principles, organizations, procedures, and functions of state government in the United States, with particular emphasis on comparing state politics and policy outcomes.

**POL 3475. International Human Rights.** (4 cr; prereq 1401 or #; spring, odd years)

Explores the historical and philosophical development of concepts of human rights and the contemporary international political and legal frameworks to address rights. Analyzes contemporary concerns about political, economic, and social rights, as well as specific human rights topics like human trafficking and war crimes. Compares American, European, Asian, and Developing World conceptions and critiques of human rights.

**PSY 1051. Introduction to Psychology.** (SS; 4 cr; fall, spring, every year)

An introduction to the science of mind and behavior. Topics include history of psychology, research methods, biological bases for behavior, life span development, sensation and perception, learning, cognitive and social processes, personality, psychopathology, and applications of psychology.

**PSY 2001. Research Methods in Psychology.** (SS; 4 cr; prereq 1051, Stat 1601 or Stat 2601, psy major or minor, or #; fall, spring, every year) Design, analysis, and interpretation of research in psychology. Instruction on different research techniques and ethics in research. Students conduct, analyze, and evaluate empirical research and gain experience preparing APA-style research reports. Includes laboratory/discussion sessions.

**PSY 2411. Introduction to Lifespan Developmental Psychology.** (SS; 4 cr; prereq 1051; fall, every year)

An introduction to theory, data, and research approaches in development from the prenatal period through childhood, adolescence, adulthood, and aging until the cessation of life. Includes physical, perceptual, cognitive, language, moral, personality, socio-emotional, family, and career development and changes over time, as well as issues of death, dying, and bereavement. Includes a multicultural focus.

**PSY 2581. Drugs and Human Behavior.** (SS; 2 cr; prereq 1051 or #; no credit for students who have received credit for Psy 1081; spring, every year)

Survey of psychoactive drugs, their effects on mind and behavior, and prevention and treatment of drug abuse.

**PSY 3101. Learning Theory and Behavior Modification.** (4 cr; prereq 2001 or #; fall, every year)

Major theories of learning and their importance for understanding human and nonhuman behavior. Classical and operant conditioning, generalization, discrimination, stimulus control, animal cognition. Behavior modification theories and techniques and their application to clinical populations. Lab projects demonstrate learning and behavior modification theories, concepts, and techniques and illustrate research methods and theory testing. Includes lab.

**PSY 3313. Psychopathology.** (4 cr; prereq 1051 or #; spring, every year) Psychological disorders and their treatment, including anxiety, personality, mood, schizophrenia, eating, substance and other recognized disorders of adults.

**PSY 3314. Child and Adolescent Psychopathology.** (4 cr; A-F only; prereq 1051 or #; fall, every year)

Broad overview of child and adolescent psychopathology—initially focusing on understanding basic concepts, historical context, developmental influences, theoretical perspectives, research methodology, and issues related to classification and assessment—followed by comprehensive information concerning the major childhood disorders (e.g., ADHD, depression, anxiety, pervasive developmental disorders).

**PSY 3315. Parenting and Family Therapy.** (4 cr; prereq 1051; spring, every year)

Examination of the effects of parenting on the growth and development of children. Emphasizes specific parenting styles and practices and their effects on the social/ emotional development and functioning of children at each stage of life. Provides an overview of the theory and practice of family counseling/therapy. Major systemic theoretical orientations are explored.

**PSY 3404. Culture and Human Development.** (HDIV; 4 cr; prereq 1051; spring, every year)

Examination of the role of culture in human development through current research and examples from around the world. Learn about similarities and cultural differences in human development, and the regularities that explain these variations. Topics include the concept of culture in developmental psychology, diversity in child rearing practices, enculturation, gender roles, schooling, development in multicultural contexts, and the influence of technology and cultural change on development. Students learn to think culturally about their own development and see how it applies to their future careers.

**PSY 3501. Social Psychology.** (4 cr; prereq 1051 or Soc 1101 or #; fall, every year)

Theories and research in the study of interpersonal behavior. Topics include aggression, prejudice, altruism, persuasion, group dynamics, and social influence.

**PSY 3504. Educational Psychology.** (4 cr; prereq 1051; spring, offered periodically)

Discussion of psychological principles/theories in relation to learning in academic settings. Topics may include: a consideration of developmental and social issues that are likely to impact the learner; a discussion of individual differences in learning; an examination of different theoretical approaches to learning applied specifically to educational settings; an analysis of factors related to student motivation and behavior; and a discussion of issues related to testing and measurement in academic settings.

**PSY 3542. Multicultural Psychology.** (HDIV; 4 cr; =[PSY 3541]; prereq 1051; fall, every year)

Theoretical and methodological approaches to multicultural psychology. Multicultural psychology is the systematic study of behavior, cognition, and affect settings where people of different backgrounds interact. Exploration of these interactions both within and outside of the United States. Topics may include worldviews, communication styles, acculturation, prejudice, white privilege, identity development, physical and mental health, and multicultural competencies.

**PSY 3701. Organizational Behavior.** (SS; 4 cr; =[MGMT 3701]; prereq Stat 1601 or Stat 2601, jr or sr; fall, offered periodically)

Same as Mgmt 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

**PSY 4101. Helping Relationships.** (4 cr; prereq 8 cr 3xxx or 4xxx Psy or Soc or Anth courses or #; fall, every year)

Approaches to counseling and psychotherapy. Theories of helping relationships. Acquisition of helping skills, including attending behavior, reflection of feeling, paraphrasing, confrontation, and summarization. Major humanistic, cognitive, and behavioral approaches. Didactic instruction, observation of counseling and psychotherapeutic techniques, and practical experiences.

**PSY 4102. Intro to Prof Conduct, Legal Constraints, Ethics in Human Services.** (E/ CR; 2 cr; prereq jr, 8 cr 3xxx or 4xxx Psy or Soc or Anth courses or #; no credit for students who have received credit for IS 4101; fall, spring, every year)

Concepts of professional ethics in human services professions; ethically relevant legal mandates and constraints on professional practice; practical problems in the application of ethical principles.

**PSY 4896. Field Experiences in Psychology.** (1-4 cr ; prereq normally requires 4101, 4102, other courses appropriate to field experience; only 4 cr may be applied to the BA or the Psy major; S-N only; fall, spring, every year)

Individually arranged, supervised observation of and assistance with activities of professional psychologists in schools, clinics, hospitals, and other field settings. Prereq-Normally requires 4101, 4102, other courses appropriate to field experience.

**SOC 1101. Introductory Sociology.** (SS; 4 cr; fall, spring, every year) Introduction to the field of sociology, the exploration of societies, and how societies operate. Sociology broadens social insights, fosters critical thinking, guides analytical thinking, and develops writing skills. By actively thinking about issues facing societies today, students learn to examine life situations and the influence of societies and groups on people's lives, careers, hopes, fears, and personalities. Emphasis on how society is stratified: how organizations and institutions influence the way people think, talk, feel, and act and how different groups (e.g., racial and ethnic) and divisions (e.g., gender and social class) within society have different access to power and privilege. People live their lives in relation to social and physical environments; sociologists study these environments and their effects on people's experiences and behavior.

**SOC 2101. Systems of Oppression.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some attention to other systems of oppression such as heterosexism and ageism.

**SOC 3103. Research Methodology in Sociology.** (4 cr; prereq 1101; fall, every year)

An introduction to research procedures used in sociology. Developing a research design and applying it to a concrete problem. Questions of validity and reliability examined in the context of research projects developed by the students.

**SOC 3121. Sociology of Gender and Sexuality.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Introduces students to the sociological study of gender and sexuality. Focuses on gender difference and gender inequality. Analyzes the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today's world. Following a theoretical overview, examines how gender and sexuality affect everyday experiences.

**SOC 3122. Sociology of Childhoods.** (HDIV; 4 cr; prereq 1101 or #; spring, even years)

Introduces students to the sociological study of childhoods. Examines the interaction between societies and their youngest members-how societies shape children's lives through social institutions such as families, education, and the state. Takes a close look at children's access to privileges and resources as determined by children's experiences of race, gender, class, nationality, and sexual orientation.

**SOC 3123. Sociology of Aging.** (HDIV; 4 cr; prereq 1101; spring, every year)

An introduction to sociology of aging. Examination of the major theories of social aging as well as the historical and cross-cultural variations in aging and differences by race, ethnicity, gender, and social class.

**SOC 3124. Sociology of Law.** (4 cr; prereq 1101; spring, every year)

Explore the emergence and function of law through the lens of social theories. The course assumes law is embodied in the social structure of society; hence, it is the product of social interaction. Based on this assumption, it examines the role of law in maintaining and reproducing social order, class, race, and gender inequalities. The course is interdisciplinary and comparative in its scope and integrates jurisprudence and various social science theories.

**SOC 3103. Research Methodology in Sociology.** (4 cr; prereq 1101; fall, every year)

An introduction to research procedures used in sociology. Developing a research design and applying it to a concrete problem. Questions of validity and reliability examined in the context of research projects developed by the students.

**SOC 3131. World Population.** (ENVT; 4 cr; prereq 1101 or #; fall, every year)

Population theory and demographic method. Dynamics of fertility and mortality as the basis of population forecasting and its policy implications. Emphasis on the tie between Third World demographic trends and population issues in the rest of the world.

**SOC 3204. Culture, Food, and Agriculture.** (ENVT; 4 cr; =[ANTH 3204]; prereq 1101 or Anth 1111 or #; spring, every year)  
Same as Anth 3204. Examines the globalization of food systems utilizing a political ecology perspective to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.

**SSA 2102. Human Anatomy.** (3 cr; =[BIOL 2102]; prereq soph; fall, every year)  
Same as Biol 2102. Structure of human systems at their organ and cellular levels. (two 65-min lect, one 120-min lab)

**STAT 1601. Introduction to Statistics.** (M/ SR; 4 cr; prereq high school higher algebra; fall, spring, every year)  
Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

**STAT 2601. Statistical Methods.** (M/SR; 4 cr; prereq Math 1101 or Math 1021; fall, every year)  
Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, nonparametric statistics, statistical quality control, use of statistical computer packages.

## Humanities (HUM)

### *Division of the Humanities*

This is an interdisciplinary group of courses under the authority of the vice chancellor for academic affairs and dean.

**Objectives**—Humanities courses are designed to introduce students to their cultural heritage. This interdisciplinary area explores the literatures and other art forms of the world. Advanced courses in the Division of the Humanities supplement the introductory courses.

## Humanities Course Descriptions

**HUM 1002. Norse Saga.** (HUM; 4 cr; fall, spring, offered periodically)  
Study of medieval sagas, in translation, from Iceland and Norway, and the culture that produced them.

**HUM 1006. From the Caesars to the Saints: Walking Ancient Rome.** (HIST; 4 cr; summer, offered periodically)  
While taking in the culture of modern-day Italy, students visit important ancient monuments in and around Rome as well as the city's museums. Students read ancient and modern authors, keep a daily journal, give an oral presentation about an ancient site, and write a final paper tying together the knowledge they gain from this program.

**HUM 1021. Popular Culture and American Politics.** (SS; 3 cr; fall, spring, every year)  
This course is an introduction to American politics and popular culture since the 1940's, exploring the relationship between the two themes. It will especially cover political movements where pop culture plays an important role pushing social change, such as in the civil rights movement, 1960's counterculture, and feminism. The primary objectives of this course to analyze the popular arts as not just an entertainment source but as a force that is shaped by and subsequently shapes American society.

**HUM 1051. Greek Drama.** (HUM; 4 cr; spring, offered periodically)  
Study of Greek drama.

**HUM 1305. Career Preparation in World Languages.** (1 cr; spring, every year)  
Students advance their understanding of the liberal arts, bilingual skills, and a global and interconnected labor market by developing a professional profile and associated materials in the target language and English including a curriculum vitae (CV), resume, and cover letters. Ideally completed in the junior year to allow ample time for career exploration.

**HUM 1805. Myth: From the Page to the Stage.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, spring, offered periodically)  
Grab a thunderbolt and explore the rich tapestry of world mythologies by reading, researching, discussing, creating, and acting. Students familiarize themselves with important myths from various cultures around the world. Students use theatre techniques to creatively engage in classroom role-playing activities as well as projects such as a myth mask, future myth, and a myth collage. At the end of the semester, students perform a short original play focusing on one of the myths studied in class.

**HUM 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**HUM 2011. On War: History, Ethics, and Representations of Modern Warfare.** (HUM; 4 cr; prereq Engl 1601 (or 1011) or equiv; fall, offered periodically)  
Explores accounts of several 20th-century American wars. Includes a wide range of course materials (film, journalistic accounts, philosophical essays, and literary texts) and perspectives on war—from the generals to the "grunts" and nurses, from American and non-American perspectives, and from scholarship to oral narratives.

**HUM 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**HUM 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**HUM 4102. Linguistics for Students of Literature.** (HUM; 4 cr; prereq jr or sr status; spring, offered periodically)  
Course offers an introduction to language-based approaches to literature. Directed at literature majors (in any language) to enhance close reading through the linguistic analysis of literary language. Topics will include syntax, phonetics, metaphor, speech act theory, sociolinguistics (non-standard dialects), and metrics/prosody.

**HUM 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Interdisciplinary Studies (IS)

### *Interdisciplinary Studies—Academic Dean*

This is an interdisciplinary group of courses under the authority of the vice chancellor for academic affairs and dean.

**Objectives**—Through interdisciplinary studies, students may investigate subjects viewed from the perspectives of two or more traditional academic disciplines. Interdisciplinary studies may take the form of well-structured internships or regular classroom courses, or directed study projects that stimulate close student-faculty relationships.

Students interested in interdisciplinary internships or directed study projects should consult with their advisers and appropriate division chairs concerning a course prospectus, proposed study activities, and proposed criteria and methods for evaluating their work. In the case of internships, students should discuss their plans with the director of the Career Center, who assists with internship placements. A signed Directed Study Approval form or Internship Approval form (available on the academic affairs website) is required in order to register for an interdisciplinary directed study or internship. The approval of the vice chancellor for academic affairs and dean is necessary to register for an interdisciplinary studies directed study or an internship.

## Interdisciplinary Studies Course Descriptions

**IS 1041. Health Sciences Terminology.** (2 cr; fall, summer, every year)  
A self-study course that has been designed to provide students with a working knowledge of the terminology utilized in the health sciences.

There are no formal class sessions. Students take four tests during the term.

**IS 1051. Introduction to College Learning Skills.** (4 cr; S-N or Audit; prereq participation in Gateway Program or #; counts toward the 60-cr general ed requirement; summer, every year)  
Essential skills for success in higher education. Introduction to computing technology, writing, and math skills. Academic and social skills needed for transition from high school to college.

**IS 1061. Mastering Skills for College Success.** (2 cr; S-N only; prereq #; fall, spring, every year)  
Practical assistance to develop efficient, effective learning/academic performance skills. Improve reading, memorization, test-taking, critical thinking; identify academic and career learning styles, motivation, life skills, and their relation to successful academic performance.

**IS 1071. Systematic Introduction to the Art and Science of Emergency Medical Care.** (4 cr; S-N only; prereq registration with the Stevens County Ambulance Services; arrangements must be made by contacting them at 320-589-7421; fall, spring, every year)  
Introduction to emergency medical care. Develops skills and knowledge to respond appropriately to a medical emergency. (The Stevens County Ambulance Service sets and requires an independent fee.)

**IS 1091. Ethical and Social Implications of Technology.** (E/CR; 2 cr; fall, spring, every year)  
Description of appropriate technological advances. Historical development related to technology and its development cycle. Discussion of the ethical and social implications of technology.

**IS 1802. Music, Education, and the Liberal Arts.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
What is a liberal arts education, and how does music fit into this idea? How does one succeed in such an environment? Explore the liberal arts approach and the role of music in education. This course also helps students to develop skills that are crucial to success in a liberal arts college environment.

**IS 1803. Dangerous Minds: Images of Education in Popular Culture.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Are college students always drunk? Do faculty members routinely have affairs with students? Can marginalized students triumph over adversity in high school? Should a college education be free for anyone who wants to attend? Are sports overemphasized in schools? These are only a sampling of the questions the class will explore by putting a critical lens up to representations of education in popular culture. Through the use of books, film, television, and news stories, students determine if they are being properly represented in today's society or if college really is "Animal House."

**IS 1804. Community Engagement: From Volunteerism to Social Justice.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; requires off-site meeting times to be arranged; fall, offered periodically)  
Introduction through readings and discussion to multiple frameworks for community engagement, ranging from meeting individual people's and agency's needs through direct volunteerism to engaging in research and direct action intended to create systematic change. In the process of studying these frameworks, students are exposed to a variety of controversies in the service-learning field. Students are also introduced to Stevens County through field trips to community agencies. Students complete a community engagement project that reflects their academic and professional goals and meets community needs. Projects can range from volunteering directly at an agency to planning a fundraiser or educational event with a partner to completing a manageable community-based research project.

**IS 1806. Bottom Dwellers in an Ocean of Air.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, odd years)  
We live on the bottom of an ocean of a mix of gases and vapors which is kept in constant, chaotic motion by uneven heating and planetary rotation, thus evading our control. We, as humans, are often on the defense or in a role of passive adaptation with regard to weather. Are human beings victims or actors on the stage of global atmospheric dynamics? Striving to assemble an answer to this question, students in the course: (1) mine human history for cases in which significant interaction between human society and climate was found; (2) study individual events in which history and weather were intertwined; (3) learn about palaeoclimate research; and (4) pay particular attention on how this interaction between society

and atmosphere is shaped in the modern world. The physical principles of weather and climate are introduced as needed for meaningful discussion.

**IS 1808. Agents and Agency: Modeling Emergence in the Social Sciences.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Agent-based modeling is a computer-based technique for investigating how complex systems can emerge from the behaviors of the people (or other agents) that form the system. Agency is the ability to act according to one's own will, rather than following social and cultural rules of behavior. Can aspects of human societies "emerge" from many simple interactions between agents, constantly repeated? Or are human choices responsible for the structure and attributes of human societies? Is there really a difference, or are these two ways of looking at the same phenomenon? Explore the potential and pitfalls of agent-based modeling as a technique for understanding human societies, through a mixture of readings, discussion, and the hands-on development of small-scale computer models. No previous technical or programming experience necessary.

**IS 1810. Global Flashpoints.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Focus on information literacy by engaging with a select range of unfolding world events. Students are mutually responsible for providing insight and context into these events. The course promotes global citizenship while teaching information literacy skills.

**IS 1811. Beyond Shushing: Libraries in the 21st Century.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; off campus meetings required; fall, offered periodically)  
Through readings, discussion, writing, and a service learning project, this class explores the role of libraries and literacy in the 21st century, focusing on the cultural, intellectual, and economic value of literacy.

**IS 1812. As We Beg, Borrow, and Steal: Sampling, Quoting, and Appropriation in the Digital Age.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Explore the history of borrowing, quoting, sampling, and appropriation in the creation of cultural artifacts such as visual arts, music, writing, film, and scientific research, as well as the impact of digital technologies on these trends today. Students create new artifacts using appropriation techniques to both illustrate and comment on these issues.

**IS 1814. Big Ideas in Science.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
Explore big ideas in science, including the major theories that are the foundations of our current understanding of the universe. Delve into Atomic Theory, Plate Tectonics, Periodic Law, Evolution, and the Big Bang Theory.

**IS 1816. Why We Eat What We Eat.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; one evening meeting required; fall, offered periodically)  
Explores the biological, historical, and cultural origins of eating patterns in the United States and the wider world and the health and environmental consequences of those eating patterns. Students document and reflect upon their own eating patterns and culinary traditions. Current controversies in food production and nutrition are examined.

**IS 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**IS 2001H. Honors: Traditions in Human Thought.** (HUM; 2 cr; prereq participation in the Honors Program or #; fall, every year)  
A study of a selection of significant works from history, literature, philosophy, science, and religion across continents from the earliest writings to the present day. Critical reading, writing, and discussion in an interdisciplinary context are emphasized.

**IS 2023. Fine and Performing Arts of London.** (FA; 2 cr [max 6 cr]; summer, offered periodically)  
A 14-day arts and culture tour of London. Admission to major museums and theatres highlights the diversity of London's arts and cultural traditions. Includes tours of the city: Buckingham Palace, Westminster, St. Paul's Cathedral, Abbey Road, Carnaby Street, and Portobello Road. Provides tickets for a variety of theatrical performances: Shakespeare's Globe Theatre, the National Theatre, and the West End. Museum entry covers: the British Museum, National Portrait Gallery, Hayward Gallery, Tate Modern, Victoria and Albert Museum, and Tate Britain.

**IS 2024. Linking the Global with the Local: Development in Nepal.** (IP; 6 cr; summer, offered periodically)

Introduction to the study of international development as present in the country of Nepal. Throughout this course, students explore and discuss power relations and systems of inequality within the context of global, national, and local social development efforts. Specifically, the course explores the historical construction of terms such as "social development" and "sustainable development." Students gain insight into the impact of international and national development efforts on a macro-level (e.g., social institutions such as the United Nations and the Government of Nepal) and on a micro-level (e.g., local community development groups). Through these activities, students recognize the diversity of people's and communities' experiences and participation/ activism in these efforts as shaped by gender, race, ethnicity, caste, social class, region, and religion. Students engage in critical thinking, writing, reflection, and dialogue through both written and oral assignments, as well as cooperative group work throughout the course.

**IS 2035. Aging in Greece: Comparative Cultural Practices and Social Policy.** (IP; 4 cr; spring, offered periodically)

International service-learning course in Athens and the island of Ikaria that explores cross-cultural differences between Greece and the United States in the meaning and experience of aging, as well as in the social and institutional supports for the aging population. Focus on the role of the community and public sector in promoting optimal aging. Students spend two hours per day in the classroom and 4-6 hours per day at a nursing home.

**IS 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**IS 3053. Irish Texts and Contexts.** (ENVT; 4 cr; summer, offered periodically)

This study abroad course explores the intimate relationship between Irish literature and the spaces in which it developed, from the geographical features that gave prehistoric Irish myths their shape to the large estates that produced poets like William Butler Yeats. The course involves three weeks of travel to many different locations throughout Ireland.

**IS 3110. Rural Community Field Project: Center for Small Towns.**

(SS; 1-6 cr ; S-N only; prereq #; meets the SS general education requirement if taken for 2 or more cr; fall, spring, offered periodically) An educational experience in a rural learning environment that focuses on rural issues of community life, demography, culture, environment, and policy. A collaborative effort between Center for Small Towns and a public rural entity provides a structured environment in which civic engagement objectives are achieved and grounded in a practical setting. Students gain a valuable understanding about the historical social structures of rural society and witness these structures firsthand.

**IS 3111H. Honors: The End of the World as We've Known It: The Apocalypse Then and Now.** (SS; 2 cr; prereq participation in Honors Program or #; spring, offered periodically)

Exploration of the occasions and representations of apocalyptic views, focusing on the historical, political, and psychological implications. Antecedents and effects of end-of-the-world prophecies are explored through the use of popular culture (e.g. music, science fiction, other media), writings from across cultural and religious frames of reference, and various historical, political, and psychological resources.

**IS 3203H. Honors: A Cross-Section of the Enlightenment.** (HIST; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)

A cross-section of the cultural and intellectual history of the 18th century. Figures to be studied may include Descartes, Newton, Locke, Hume, Hobbes, Rousseau, Voltaire, Lavoisier, d'Holbach, and Blake.

**IS 3204H. Honors: Ecological Health and the Sustainability of Common-Property Resources.** (ENVT; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)

Exploration of "sustainability" from the perspective of economics and ecology. Examples might include ocean fisheries, the rain forest, the introduction of alien species, and the global climate.

**IS 3206H. Honors: Introduction to Game Theory.** (M/SR; 2 cr; prereq participation in the Honors Program, high school higher algebra or #; credit will not be granted if credit has been received for Econ 3014; fall, spring, offered periodically)

Introduction to the formal theory of strategic interaction and to the intuitions behind the theory. Applications to a selection of problems in the natural and social sciences, such as biological evolution, tacit collusion in

pricing, strategic behavior in international relations, and strategy in legislative voting.

**IS 3209H. Honors: Apocalypse Now? The Science and Policy of Preparing for a Catastrophe.** (ENVT; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)

Popular visions, policy response, and scientific underpinnings of potentially catastrophic societal problems past and present. Do we worry about the right things? How do scientists, politicians, and purveyors of popular culture assess which threats warrant attention? (two 50-min lect/disc plus multiple evening film screenings)

**IS 3211H. Honors: Republic or Empire? The American 1890s.** (HIST; 2 cr; prereq participation in the Honors Program or #; fall, spring, offered periodically)

The 1890s are often seen as a cultural watershed for the United States. Depression, political movements, and a "splendid little war" against Spain and the Philippines represent only the surface of a decade which altered aspects of race, class, gender, and literary sensibility.

**IS 3212H. Honors: Global Encounters and the Making of the Contemporary World, 1450 to the Present.** (HDIV; 2-4 cr ; prereq high school higher algebra, participation in Honors Program or #; spring, offered periodically)

An exploration of the initial interaction among the indigenous people of Africa and the Americas with the people of Europe. Parallel immediate and long-term effects of these initial encounters are identified and discussed.

**IS 3214H. Honors: Evolution and Culture of Human Aggression.** (HUM; 2 cr; prereq participation in Honors Program or #; fall, offered periodically)

Exploration of aggression in medieval literature and culture and theorization about the adaptiveness of aggression. Group and individual aggression expressed by humans living under current conditions is explored from a cultural and evolutionary perspective.

**IS 3215H. Honors: Sagas before the Fall: Culture, Climate, and Collapse in Medieval Iceland.** (ENVT; 2 cr; prereq participation in Honors Program or #; fall, offered periodically)

Exploration of the literary and physical record of society in Viking-age Iceland from its settlement during the Medieval Warm Period, through centuries of environmental degradation and changing religion, to the onset of the Little Ice Age and the end of the Icelandic free state.

**IS 3216H. Honors: Perspectives on Disability in Contemporary American Life.** (HDIV; 2 cr; prereq participation in Honors Program or #; fall, offered periodically)

Introduction to the interdisciplinary field of disability studies, which favors a social rather than medical approach to understanding difference. History and struggle for civil rights, identity issues, contemporary controversies, and exploring the frontiers of one's own interest in disability by means of a service learning project.

**IS 3217H. Honors: The Trial of Galileo.** (HIST; 2 cr; prereq participation in Honors Program or #; spring, offered periodically)

The dispute between Galileo and the Inquisition produced one of history's most notorious trials, an enduring symbol of the struggle between science and religion. Study of the complicated history behind the myth by re-enacting the trial and learning about the theology, science, and cultural politics of this tumultuous period.

**IS 3234H. Honors: Intersections of Art and Science.** (FA; 2 cr; prereq participation in Honors Program or #; spring, offered periodically)

Explores the intersection of scientific discovery and aesthetic innovation, especially the ways in which scientists and artists have influenced one another's work. Examines the ways in which these different pursuits value notions of creativity.

**IS 3235H. Honors: Politics and Film.** (HUM; 2 cr; prereq participation in Honors Program or #; spring, offered periodically)

Explores age-old questions of political science and philosophy—what is justice, what does citizenship mean, what is power, how do we relate to the "other"—through the lens of film. Examines American and foreign films and a variety of filmmakers to analyze effects of different cinematic and narrative techniques on our interpretations.

**IS 3236H. Honors: Representations of Writers and Artists.** (HUM; 2 cr; prereq participation in the Honors Program or #; fall, offered periodically)

An interdisciplinary approach is used in exploring the varied ways writers and artists are represented in books, television, film, and other media, comparing these representations with the lives and experiences of contemporary working writers and artists.

**IS 3237H. Honors: The Power of Place: An Interdisciplinary Approach to Where We Live.** (ENVT; 2 cr; prereq participation in the Honors Program or #; spring, offered periodically)

Goes beyond the image and myth of Lake Wobegon in examining the past and present of West Central Minnesota. An intensely interdisciplinary focus on environmental, social, political, and economic change and how modern global forces play out in this specific setting. Community leaders and experts play an active role in lecture and discussion.

**IS 3238H. Honors: In Search of Nietzsche.** (IP; 4 cr; prereq participation in Honors Program or #; fall, offered periodically)

In this interdisciplinary course, read some books by and novels about Nietzsche in order to discover who this remarkable man was. Authors to be discussed: Nietzsche, D.H. Lawrence, Richard Wright, Milan Kundera, Nicholas Mosley, and Irvin D. Yalom.

**IS 3239H. Honors: The Anatomy of Development and the "Common Good": Sardar Sarovar Dam in Gurjurat, India.** (SS; 2 cr; prereq participation in the Honors Program or #; summer, offered periodically)

In the Global South, the unspoken basis of development projects is that they represent an attempt to serve the "common good." This assumption masks a torrent of disagreement and conflict about whose common good is served and how a particular project in question (e.g., dams, irrigation, introduction of new farming techniques) "develops" the nation.

**IS 3240H. Honors: Proud Decade or Dark Age? The American 1950s.** (HIST; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)

Many old enough to remember the American 1950s look back on them with nostalgia. Some do not. This seminar studies several aspects of the decade: the Cold War at home and abroad, American society, literature, and popular culture. Student presentations focus on biographical research.

**IS 3241H. Honors: Worldviews.** (SCI; 4 cr; prereq participation in the Honors Program or #; fall, spring, offered periodically)

The Copernican Revolution, culminating in Newton's System of the World, and modern cosmology beginning with the work of Einstein, Hubble, Friedmann, Lemaitre, and Gamow, culminating in the contemporary theory of the universe's accelerated expansion.

**IS 3242H. Honors: Two Cosmological Poets: Dante and Lucretius.** (IP; 2 cr; prereq participation in the Honors Program or #; fall, offered periodically)

Explore, compare, and contrast the cosmological poems "On the Nature of Things" (*De Rerum Natura*, DRN) of Titus Lucretius Carus (ca. 99-55 BCE) and "The Divine Comedy" (*Commedia*) of Dante Alighieri (1265-1321 CE). The two poets diverge on almost every aspect of cosmological outlook and notion of the moral life and right living.

**IS 3243H. Honors: Dialogues and the Ancient World.** (HUM; 2 cr; prereq participation in the Honors Program or #; fall, offered periodically) Examination of a number of literary dialogues from the ancient, medieval, and early modern periods in order to better understand what the genre of dialogue is. Discussion of the literary and historical issues raised by these dialogues to explore some of the key topics of antiquity and the Middle Ages and to see how these topics continue to affect modernity.

**IS 3244H. Honors: Fascism, the Resistance, and Their Legacy in Contemporary Italy.** (IP; 2 cr; prereq participation in Honors Program or #; fall, spring, offered periodically)

Study of Italian Fascism and the Resistance and the continued significance these two phenomena have for contemporary Italian identity. Primary texts include historical documents together with works of literature and film. Students have the opportunity to research the topic of resistance to oppressive regimes in other national contexts.

**IS 3245H. Honors: Archaeology Mythbusting.** (SS; 2 cr; prereq participation in the Honors program or #; spring, offered periodically)

This honors class explores the world of pseudoarchaeology and archaeological fraud, from Atlantis to aliens. Discuss why myths and pseudoscience are so prevalent in popular representations of the past, and whose interests are served by them. Students engage in scientific outreach through the media of their choice to spread the word about archaeological truth and fiction.

**IS 3247H. Honors: Heroes of Ancient Greece and Rome.** (HUM; 2 cr; prereq participation in Honors Program or #; fall, offered periodically)

Explore several types of heroes found in ancient Greek and Roman mythology and literature. Discuss such questions as: What makes a character a hero? What kinds of real-world issues did literary heroes help Greeks and Romans think about? Were they meant to be emulated? How might they be relevant to the modern world?

**IS 3710. Peer Tutoring in College.** (1 cr [max 3 cr]; S-N only; fall, every year)

Tutor students in selected courses.

**IS 3720. Tutoring Writing Across the Disciplines.** (1-2 cr [max 6 cr]; S-N only; prereq Engl 1601 (or 1011) or equiv, soph standing, #, coreq Engl 3005 for students in their first sem at the Writing Room; fall, spring, every year)

Tutor student writers at the Writing Room; meet regularly with other tutors for ongoing training in peer writing tutoring.

**IS 3796. Interdisciplinary Internship in the Helping Professions.** (1-16 cr [max 32 cr]; S-N only; fall, spring, summer, every year)

One-semester educational experience providing field applications in the helping professions (social work, counseling, casework, child protection services, educational settings, human resource counseling, and the like) for the student's theoretical classroom learning experiences. Prereq-Psy 4102, approved internship form; Psy 4101 recommended.

**IS 3800. Practicum in Social Sciences.** (1-2 cr [max 4 cr]; S-N only; fall, spring, every year)

Supervised experience of selected learning activities such as discussion group leader, lab assistant, research assistant, or other teaching-related activities.

**IS 3810. Practicum in the Humanities.** (1-2 cr [max 4 cr]; S-N only; fall, spring, every year)

Supervised experience of selected learning activities such as discussion group leader, test review leader, research assistant, or other teaching-related activities.

**IS 3893. Prior Learning Directed Study.** (1-4 cr [max 10 cr]; fall, spring, every year)

Individualized learning project combining prior learning with faculty-directed new learning, awarding academic credit for both. (When content is discipline-related, discipline designation will appear on transcript and credit may count toward appropriate general education requirement category.)

**IS 3896. Prior Learning Internship.** (1-16 cr [max 32 cr]; S-N only; fall, spring, every year)

An educational experience in a work environment providing field application for the student's theoretical classroom learning experiences. The prior learning internship, such as in social service or business settings, occurred prior to the student's matriculation. The prior learning is documented and combined with faculty-directed new learning, with credit awarded for both.

**IS 3991H. Honors Co-Curricular Independent Study.** (1-2 cr ; A-F only; fall, spring, every year)

Co-curricular honors credits may be earned by writing a paper that explores a co-curricular experience such as study abroad, off-campus internship, national student exchange, service-learning, or directed research. Students pursuing this option must seek pre-approval. Projects are directed and assessed by the Honors Director.

**IS 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**IS 3996. Interdisciplinary Internship.** (1-16 cr [max 32 cr]; S-N only; fall, spring, summer, every year)

One-semester educational experience in a work environment providing field applications for the student's theoretical classroom learning experiences.

**IS 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**IS 4994H. Honors Capstone Project.** (2 cr; fall, spring, every year)

A substantial scholarly or creative interdisciplinary work designed by the student working cooperatively with a project adviser. Upon completion, the project is defended before a panel of faculty from different disciplines. Successful completion of the honors capstone project is one of the requirements for graduating from UMM "with honors."

## Italian (ITAL)

### *Division of the Humanities*

Courses in Italian introduce students to the study of the language, literature, and culture of Italy. The courses satisfy foreign language and other general education requirements.

**Objectives**—Courses are designed to help students develop a number of skills in Italian, including comprehension and speaking, reading, and writing, in order to communicate effectively in Italian on a broad range of topics. The courses are designed to help students develop critical insight into the philosophy and values of another culture as they increase their competence in a second language.

### Study Abroad

In light of today's increasingly interdependent world, the UMM Italian discipline endorses study abroad as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one's world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

## Italian Course Descriptions

**ITAL 1001. Beginning Italian I.** (4 cr; fall, every year)

Introduction to Italian as it is presently spoken and written. Basic sounds, structures, and vocabulary of Italian. Understanding, reading, and writing the language and communicating in Italian about everyday situations. Relationship between culture and language.

**ITAL 1002. Beginning Italian II.** (FL; 4 cr; prereq 1001 or placement or #; spring, every year)  
Continuation of 1001.

**ITAL 1104. Major Works of Italian Literature in Translation from the Middle Ages to the Present.** (HUM; 4 cr; spring, offered periodically)

Survey of Italian literature from the Middle Ages to the present. Attention given to major works of narrative, poetry, and drama of various periods. Emphasis on ground-breaking works that constituted a challenge to prevailing literary and cultural values. This course is conducted in English; all texts will be read in English translation.

**ITAL 1105. Italian Cinema.** (IP; 4 cr; spring, offered periodically)

Study of Italian cinema from the silent era to the present, focusing on significant genres and directors, as well as on critical approaches to film studies. Taught in English; all films have English subtitles.

**ITAL 1311. Modern Italy through Literature and Film.** (HUM; 4 cr; spring, offered periodically)

The political, social, and cultural transformations of Italy from 19th-century unification to contemporary issues of immigration and multiculturalism as reflected in literature and film. Topics include forging a national identity; Fascism, the Resistance and post-war period; the "southern question"; the "economic miracle"; current cultural issues.

**ITAL 1331. The Eternal City: The Language and Culture of Rome I.** (FL; 4 cr; summer, offered periodically)

Beginning course for UMM study abroad in Rome, Italy. Four weeks of Italian language together with the art and literature of Rome. Emphasis on works of art, literature, and film belonging to several periods and addressing the history and character of the city. Excursions to relevant sites in and near Rome. No previous experience in Italian required.

**ITAL 1801. Rome: The City in Literature and Film.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Study of representations of the city of Rome in significant works of Italian literature and film. Topics include the rhetorical construction of national and cultural identities, the individual's relationship to fictional and lived space, the city as stage for major cultural and political preoccupations of contemporary Italy. Conducted in English.

**ITAL 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ITAL 2001. Intermediate Italian I.** (IP; 4 cr; prereq 1002 or #; fall, spring, offered periodically)

Continued development of listening, reading, writing, and speaking skills; review of the fundamental elements of the Italian language. Emphasis on authentic cultural and literary texts appropriate to this level.

**ITAL 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ITAL 3331. The Eternal City: The Language and Culture of Rome II.**

(IP; 4 cr; prereq 1302 or equiv.; summer, offered periodically)  
Advanced course for UMM study abroad in Rome, Italy. Four weeks of Italian language together with the art and literature of Rome. Emphasis on works of art, literature, and film belonging to several periods and addressing the history and character of the city. Excursions to relevant sites in and near Rome.

**ITAL 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**ITAL 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Language (LANG)

### *Division of the Humanities*

Language courses support and help develop the academic language skills of non-native speakers of English.

**Objectives**—"Lang" courses are designed to support the academic language demands found in American higher education. Courses focus on the development of writing, reading, and oral skills proficiency in English as well as the cultural norms and expectations of American education.

## Language Course Descriptions

**LANG 1061. Writing in the American University.** (3 cr [max 6 cr]; prereq non-native speaker of English, #; fall, spring, every year)

Writing course for non-native speakers of English at the advanced level, emphasizing competency in standard written English with a focus on development of paragraphs, exploration of the writing process, and experience with various rhetorical styles of essays in preparation for the demands of classroom writing.

**LANG 1062. Reading in the American University.** (2 cr [max 4 cr]; S-N only; prereq non-native speaker of English, #; fall, spring, every year)

For non-native speakers of English. Course focuses on developing and reinforcing essential reading skills including vocabulary strategies/ word studies; identifying elements of the text to support comprehension; critical thinking and analysis; and more micro-skills such as predicting, skimming, scanning and inferring.

**LANG 1063. Academic Culture and Oral Skills in the American University.** (2 cr [max 4 cr]; S-N only; prereq non-native speaker of English, #; fall, spring, every year)

For non-native speakers of English. Designed to assist international students with the transition from the social/educational systems in their own cultures to the social/educational systems in the United States. Primary focus on oral skills; coursework focuses on class participation, discussion, note-taking, and critical thinking.

**LANG 1064. Preparing for the American Liberal Arts Classroom.** (3 cr; S-N only; prereq non-native speaker of English; admission to UMM, #; summer, every year)

Prepares international students for norms and rigors of English-language, liberal arts college classroom. Includes preparation in language/ academic skills of reading, writing, oral skills; exposure to disciplines that compose liberal arts; developing familiarity with cultural norms of a U.S. classroom; contextualization of topics through field trips.



## Latin (LAT)

### *Division of the Humanities*

Latin is an essential language in Western history and is used in research to read texts and to create terminology across the globe and in many disciplines, such as music, art, English literature, linguistics, history, law, political science, anthropology, biology, chemistry, mathematics, foreign languages and literature, and philosophy. Latin courses give students the language and analytic skills necessary to engage with texts written in Latin, as well as to better understand their native language.

**Objectives**—The Latin discipline teaches the skills necessary for approaching any Latin text and for understanding the rich cultures, ideas, institutions, and writings from ancient Rome through the Middle Ages, Renaissance, and up to the present day. This prepares students to think critically about language and texts and provides a strong language background for many graduate programs.

### Study Abroad

In order to connect students as closely as possible to the ancient Roman world, the discipline encourages study abroad as a means to:

- improve language abilities;
- broaden academic horizons;
- globalize and historicize one's world view;
- expand career opportunities;
- advance cross-cultural and problem-solving skills; and
- gain confidence in oneself personally and professionally.

## Latin Course Descriptions

### **LAT 1001. Beginning Latin I.** (4 cr; fall, every year)

Study of Latin vocabulary and structures in order to attain basic reading and writing competence; practice in oral recitations and compositions. Introduction to ancient Roman history and culture.

### **LAT 1002. Beginning Latin II.** (FL; 4 cr; prereq 1001 or placement or #; spring, every year)

Continuation of 1001.

### **LAT 2001. Intermediate Latin I.** (IP; 4 cr; prereq 1002 or #; summer, every year)

Continued development of listening, reading, writing, and speaking skills; review of the fundamental elements of the Latin language. Emphasis on authentic cultural and literary texts appropriate to this level.

## Latin American Area Studies (LAAS)

### *Interdisciplinary Studies—Academic Dean*

**Objectives**—To provide a basic introduction to the cultures and societies of Latin America, to provide the means essential to gain an understanding of Latin America and its diverse peoples, and to place Latin America in a comparative perspective.

To meet these objectives, three of our core courses engage students in learning about the histories, contemporary events, and research resources on Latin America. In addition, all of our elective courses introduce students to a diversity of significant topics on Latin America, ranging from language proficiency, literature courses on Latin American cultures, issues of social justice, human rights, development, politics, economics, revolutions, and so forth. Our Senior Capstone course immerses students in gaining a deeper understanding of selected topics on Latin America with a comparative perspective in mind. Together, our courses engender greater comprehension of Latin America, language comprehension and communication skills, important analytical skills, greater intercultural sensitivity and empathy, and ability to conduct research and compose well-written research papers.

### Student Learning Objectives:

1. Knowledge of Human Cultures and the Physical and Natural World through in-depth study in a particular field (Latin American countries, histories, and cultures) and engagement in big questions related to Latin America (e.g., economic and political transformations)

2. Intellectual and Practical Skills through development of research and analytic skills (course essays, LAAS 3201 Bibliographic Tools and Journals in LAAS; senior capstone course)
3. An Understanding of the Roles of Individuals in Society through gaining intercultural knowledge and competence (all courses)
4. Capacity for Integrative Learning through requirement of 20 electives credits in three different disciplines

### Student Learning Outcomes:

1. Ability to think critically and communicate effectively, through informed understandings of Latin America, on issues of historical, social, economic, and political processes affecting the region.
2. Ability to locate relevant research resources and apply them in conducting research on Latin America.
3. Ability to competently compare and contrast the different countries and regions of Latin America from the perspectives of its diverse human populations and societies.
4. Skills in understanding Latin America utilizing an inter-disciplinary perspective.

## Latin American Area Studies Major

Students are required to take 4 semester(s) of Spanish. Students must enroll through the LAAS coordinator.

Students are encouraged to use elective credits to acquaint themselves with as many academic fields of Latin American studies as possible.

Students may have up to a two-course overlap with any other major. Additional overlap must be approved by the LAAS coordinator. No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

After enrolling in the major and when in residence, 1 credit per semester in LAAS 3100; up to 4 credits can be applied to the 20-credit elective requirement for the major. With approval of the LAAS coordinator and another faculty member, a capstone experience in a different discipline that contains primarily Latin American content may be wholly or partially substituted for LAAS 4901, but requires completion of four total credits.

HIST 1601—Latin American History: A Basic Introduction [IP] (4 cr)

LAAS 3100—Contemporary Latin America (1 cr)

LAAS 3201—Bibliographical Tools and Journals in Latin American Area Studies (2 cr)

LAAS 4901—Senior Capstone in Latin American Area Studies (2–4 cr)

### Elective Courses

These courses must come from at least three different academic disciplines, not including LAAS. At least 4 credits of electives must be 3xxx or 4xxx level courses. Courses and directed studies not listed below may be approved by the LAAS coordinator, provided the subject matter is appropriate for the major.

*Take 20 or more credits from the following:*

#### 1xxx and 2xxx level electives

*Take at most 16 credits from the following:*

HIST 2608—History of Cuba: From Colony to Revolutionary State [HIST] (4 cr)

HIST 2609—History of Brazil: From Sugar to Sugar Cars [HIST] (4 cr)

LAAS 1993—Directed Study (1–5 cr)

LAAS 2993—Directed Study (1–5 cr)

SPAN 2121—Associated Languages: Intensive Portuguese [IP] (4 cr)

#### 3xxx and 4xxx level electives

*Take 4 or more credits from the following:*

ANTH 3502—Latinos in the Midwest [SS] (4 cr)

ANTH 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)

ANTH 3602—Women in Latin America [IP] (4 cr)  
 ANTH 3603—Latin American Archaeology (4 cr)  
 HIST 3601—Great Books in Latin American History [IP] (4 cr)  
 HIST 3612—Social Revolution in 20th-Century Latin America [HIST] (4 cr)  
 HIST 3613—U.S.-Latin American Relations in Historical Perspective [IP] (4 cr)  
 HIST 3614—Race and Ethnicity in Latin America [HDIV] (4 cr)  
 LAAS 3993—Directed Study (1–5 cr)  
 LAAS 4993—Directed Study (1–5 cr)  
 POL 3475—International Human Rights (4 cr)  
 POL 3504—Latin American Politics (4 cr)  
 PSY 3404—Culture and Human Development [HDIV] (4 cr)  
 SOC 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)  
 SOC 3602—Women in Latin America [IP] (4 cr)  
 SPAN 3011—Conversation, Composition, and Culture [IP] (2 cr)  
 SPAN 3012—Spanish Grammar in Practice [IP] (2 cr)  
 SPAN 3111—Readings in Spanish I [HUM] (2 cr)  
 SPAN 3112—Readings in Spanish II [HUM] (2 cr)  
 SPAN 3211—Literature and Culture of Latin America [HUM] (4 cr)  
 SPAN 3212—Literature and Culture of Spain [HUM] (4 cr)  
 SPAN 3651—Seminar: Miguel de Cervantes Saavedra's "El ingenioso hidalgo Don Quijote de la Mancha" [HUM] (4 cr)  
 SPAN 3654—Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature [HUM] (4 cr)  
 SPAN 3681—Seminar: Romanticism and Revolution in 19th-Century Spain [HUM] (4 cr)  
 SPAN 3682—Seminar: Realism and Reform in 19th-Century Spain [HUM] (4 cr)  
 SPAN 3683—Seminar: Modernity and Identity in Spain, 1900-1930 [HUM] (4 cr)  
 SPAN 3684—Seminar: Hispanic Film [HUM] (4 cr)  
 SPAN 3685—Seminar: Slavery and Abolition in Cuban Literature and Culture [IP] (4 cr)  
 SPAN 3686—Seminar: Writing History in Spanish American Literature [HUM] (4 cr)  
 SPAN 3687—Seminar: Afro-Hispanic Literature and Culture [HDIV] (4 cr)  
 SPAN 4001—Research Symposium [HUM] (4 cr)

## Latin American Area Studies Minor

Students must enroll through the LAAS coordinator.

Students are required to complete Span 1001, 1002, 2001, and 2002 prior to or during enrollment in the minor (the requirement may be waived by testing out of Span 2002).

Students are encouraged to use elective credits to acquaint themselves with as many academic fields of Latin American studies as possible.

Students may have up to a two-course overlap with any other minor. Additional overlap must be approved by the LAAS coordinator. No grades below C– are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

After enrolling in the minor and when in residence, 1 credit per semester in LAAS 3100; up to 4 credits can be applied to the 16-credit elective requirement for the minor.  
 HIST 1601—Latin American History: A Basic Introduction [IP] (4 cr)  
 LAAS 3100—Contemporary Latin America (1 cr)  
 LAAS 3201—Bibliographical Tools and Journals in Latin American Area Studies (2 cr)

### Elective Courses

These courses must come from at least three different academic disciplines, not including LAAS. At least 4 credits of electives must be 3xxx or 4xxx level courses. Courses and directed studies not

listed below may be approved by the LAAS coordinator, provided the subject matter is appropriate for the minor.

Take 16 or more credits from the following:

### 1xxx and 2xxx level electives

Take at most 12 credits from the following:

HIST 2608—History of Cuba: From Colony to Revolutionary State [HIST] (4 cr)  
 HIST 2609—History of Brazil: From Sugar to Sugar Cars [HIST] (4 cr)  
 LAAS 1993—Directed Study (1–5 cr)  
 LAAS 2993—Directed Study (1–5 cr)  
 SPAN 2121—Associated Languages: Intensive Portuguese [IP] (4 cr)

### 3xxx and 4xxx level electives

Take 4 or more credits from the following:

ANTH 3502—Latinos in the Midwest [SS] (4 cr)  
 ANTH 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)  
 ANTH 3602—Women in Latin America [IP] (4 cr)  
 ANTH 3603—Latin American Archaeology (4 cr)  
 HIST 3612—Social Revolution in 20th-Century Latin America [HIST] (4 cr)  
 HIST 3613—U.S.-Latin American Relations in Historical Perspective [IP] (4 cr)  
 HIST 3614—Race and Ethnicity in Latin America [HDIV] (4 cr)  
 LAAS 3993—Directed Study (1–5 cr)  
 LAAS 4993—Directed Study (1–5 cr)  
 POL 3475—International Human Rights (4 cr)  
 POL 3504—Latin American Politics (4 cr)  
 PSY 3404—Culture and Human Development [HDIV] (4 cr)  
 SOC 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)  
 SOC 3602—Women in Latin America [IP] (4 cr)  
 SPAN 3011—Conversation, Composition, and Culture [IP] (2 cr)  
 SPAN 3012—Spanish Grammar in Practice [IP] (2 cr)  
 SPAN 3111—Readings in Spanish I [HUM] (2 cr)  
 SPAN 3112—Readings in Spanish II [HUM] (2 cr)  
 SPAN 3211—Literature and Culture of Latin America [HUM] (4 cr)  
 SPAN 3212—Literature and Culture of Spain [HUM] (4 cr)  
 SPAN 3651—Seminar: Miguel de Cervantes Saavedra's "El ingenioso hidalgo Don Quijote de la Mancha" [HUM] (4 cr)  
 SPAN 3654—Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature [HUM] (4 cr)  
 SPAN 3681—Seminar: Romanticism and Revolution in 19th-Century Spain [HUM] (4 cr)  
 SPAN 3682—Seminar: Realism and Reform in 19th-Century Spain [HUM] (4 cr)  
 SPAN 3683—Seminar: Modernity and Identity in Spain, 1900-1930 [HUM] (4 cr)  
 SPAN 3684—Seminar: Hispanic Film [HUM] (4 cr)  
 SPAN 3685—Seminar: Slavery and Abolition in Cuban Literature and Culture [IP] (4 cr)  
 SPAN 3686—Seminar: Writing History in Spanish American Literature [HUM] (4 cr)  
 SPAN 3687—Seminar: Afro-Hispanic Literature and Culture [HDIV] (4 cr)  
 SPAN 4001—Research Symposium [HUM] (4 cr)

## Latin American Area Studies Course Descriptions

**ANTH 3502. Latinos in the Midwest.** (SS; 4 cr; spring, offered periodically)

Explore the history and experiences of Latinos in the Midwest United States. Starting from a historical perspective, the course examines issues including (im)migration, undocumented status, language, religion, race/ethnicity, media, and economy. A comparative framework emphasizes the unique context of migration into (rather than out of) rural communities as well as those far from a national border. Given the context of the local Morris community, the focus is particularly on rural Latino experiences.

**ANTH 3601. Social Justice and Human Rights in Latin America.** (IP; 4 cr; =[SOC 3601]; prereq 1111 or Soc 1101 or #; fall, every year)  
Same as Soc 3601. Examination of social, economic, and political transformations in Latin America with an emphasis on social justice and human rights. Critical approaches to understand U.S.-Latin American relations, labor struggles, rebellions to define alternative development, indigenous resistance to encroachment on resources and ways of life, civil war and genocide, and efforts to create a more environmentally and socially sustainable development.

**ANTH 3602. Women in Latin America.** (IP; 4 cr; =[SOC 3602]; prereq 1111 or Soc 1101 or #; spring, every year)  
Same as Soc 3602. Study of the social, economic, and political positions of women in Latin American countries. Topics include class and ethnic differences, women in the labor force, and women's participation in political movements through the lens of feminist theory.

**ANTH 3603. Latin American Archaeology.** (4 cr; prereq 1111 or 2103; fall, spring, offered periodically)  
Latin America from the earliest human colonization to European contact. Includes societies from northern Mexico through Tierra del Fuego, as well as the Caribbean. Covers early hunting gathering societies, origins of agriculture, the rise of powerful states and empires, and their influence on later Colonial-period societies.

**HIST 1601. Latin American History: A Basic Introduction.** (IP; 4 cr; spring, odd years)  
Methods, themes, and problems in the study of Latin American history.

**HIST 2608. History of Cuba: From Colony to Revolutionary State.** (HIST; 4 cr; fall, spring, offered periodically)  
A survey of the history of Cuba from Spanish colonization to the present, with emphasis on the 19th and 20th centuries. Topics include colonization, slavery, imperialism, nationalism, and the Cuban Revolution.

**HIST 2609. History of Brazil: From Sugar to Sugar Cars.** (HIST; 4 cr; fall, even years)  
Examination of Brazilian history from Portuguese colonization in the early 1500s to its current status as a growing world economic power. Topics include Portuguese colonial rule, independence and the creation of the Brazilian Empire in the nineteenth century, the end of the Brazilian monarchy and the emergence of the oligarchic republic, the rise of the populist state in the mid-twentieth century, military dictatorship during the Cold War, and the return to democracy and Brazil's rise to world-power status. Additional topics include the Amazon and environmental history, indigenous history, Afro-Brazilian history, the U.S.-Brazilian relationship from a historical perspective, Brazilian economic development, how Brazilians are coping with the socioeconomic changes in their society, and how they perceive their role in the world.

**HIST 3601. Great Books in Latin American History.** (IP; 4 cr; fall, every year)  
A look at Latin American history through great books.

**HIST 3612. Social Revolution in 20th-Century Latin America.** (HIST; 4 cr; fall, offered periodically)  
Examination of social revolution in 20th-century Latin America. Particular attention paid to social revolution in Mexico, Bolivia, Cuba, and Nicaragua. Populism, democratic attempts at social revolution, and counterrevolution in other parts of Latin America also considered. Key issues include imperialism, capitalism, communism, nationalism, and the Cold War.

**HIST 3613. U.S.-Latin American Relations in Historical Perspective.** (IP; 4 cr; fall, spring, offered periodically)  
Examination of the history of U.S.-Latin American relations from U.S. independence to the present. Focuses on the political, economic, social, and cultural relationships between the two.

**HIST 3614. Race and Ethnicity in Latin America.** (HDIV; 4 cr; fall, spring, offered periodically)  
Explore issues of race and ethnicity in Latin America from a historical perspective. Covering the colonial and national periods, examine how ideas of race and ethnicity have intersected with political, economic, and socio-cultural developments in the region. Consider the ways in which race, class, and gender have intersected in Latin America.

**LAAS 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**LAAS 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**LAAS 3100. Contemporary Latin America.** (1 cr [max 8 cr]; prereq LAAS major; to be repeated each sem a student is in residence; only 4 cr may apply to LAAS major; fall, spring, every year)  
Opportunity for LAAS majors to read about and discuss in historical and cultural contexts the more important contemporary developments in Latin America.

**LAAS 3201. Bibliographical Tools and Journals in Latin American Area Studies.** (2 cr; prereq LAAS major; fall, spring, offered periodically)  
For the student new to the major. Introduction to the standard bibliographical tools and journals in Latin American area studies.

**LAAS 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**LAAS 4901. Senior Capstone in Latin American Area Studies.** (2-4 cr; A-F only; prereq 3201, sr LAAS major, #; fall, spring, offered periodically)  
A capstone experience for LAAS majors. Individual reading and development of an original research paper in consultation with the LAAS coordinator. With approval of the LAAS coordinator and another faculty member, a capstone experience in a different discipline that contains primarily Latin American content may be wholly or partially substituted for LAAS 4901, but requires completion of four total credits.

**LAAS 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**POL 3475. International Human Rights.** (4 cr; prereq 1401 or #; spring, odd years)  
Explores the historical and philosophical development of concepts of human rights and the contemporary international political and legal frameworks to address rights. Analyzes contemporary concerns about political, economic, and social rights, as well as specific human rights topics like human trafficking and war crimes. Compares American, European, Asian, and Developing World conceptions and critiques of human rights.

**POL 3504. Latin American Politics.** (4 cr; prereq 1401 or #; fall, offered periodically)  
A comparative examination of central issues in and components of Latin American political life, with a particular focus on economic development, political development of democratic regimes, political violence and human rights, and the region's role in the world. Countries analyzed may include Argentina, Brazil, Chile, Colombia, El Salvador, Mexico, Peru, and Cuba.

**PSY 3404. Culture and Human Development.** (HDIV; 4 cr; prereq 1051; spring, every year)  
Examination of the role of culture in human development through current research and examples from around the world. Learn about similarities and cultural differences in human development, and the regularities that explain these variations. Topics include the concept of culture in developmental psychology, diversity in child rearing practices, enculturation, gender roles, schooling, development in multicultural contexts, and the influence of technology and cultural change on development. Students learn to think culturally about their own development and see how it applies to their future careers.

**SOC 3601. Social Justice and Human Rights in Latin America.** (IP; 4 cr; =[ANTH 3601]; prereq 1101 or Anth 1111 or #; fall, every year) Same as Anth 3601. Examination of social, economic, and political transformations in Latin America with an emphasis on social justice and human rights. Critical approaches to understand U.S.-Latin American relations, labor struggles, rebellions to define alternative development, indigenous resistance to encroachment on resources and ways of life, civil war and genocide, and efforts to create a more environmental and socially sustainable development.

**SOC 3602. Women in Latin America.** (IP; 4 cr; =[ANTH 3602]; prereq 1101 or Anth 1111 or #; spring, every year)  
Same as Anth 3602. Study of the social, economic, and political positions of women in Latin American countries. Topics include class and ethnic differences, women in the labor force, and women's participation in political movements through the lens of feminist theory.

**SPAN 2121. Associated Languages: Intensive Portuguese.** (IP; 4 cr; prereq 2002 or Fren 2002 or #; fall, spring, offered periodically)  
Intensive, accelerated study of the basic skills of Brazilian Portuguese (reading, writing, listening, and speaking) with emphasis on oral competency.

**SPAN 3011. Conversation, Composition, and Culture.** (IP; 2 cr; prereq 2002 or #; fall, every year)

Practice in effective oral and written communication in Spanish for advanced students, with an emphasis on the diversity of contemporary Hispanic cultures and a review of basic grammatical concepts.

**SPAN 3012. Spanish Grammar in Practice.** (IP; 2 cr; prereq 3011 or #; spring, every year)

A review of advanced Spanish grammar, with emphasis on areas of concern and challenge for the non-native speaker, and on strengthening academic writing skills in Spanish.

**SPAN 3111. Readings in Spanish I.** (HUM; 2 cr; prereq 3011 or #; fall, every year)

Introduction to representative works of contemporary Hispanic literature from diverse genres and cultural contexts, with emphasis on strategies for comprehension and interpretation.

**SPAN 3112. Readings in Spanish II.** (HUM; 2 cr; prereq 3012, 3111 or #; spring, every year)

Further examination of representative works of Hispanic literature from diverse genres, time periods, and cultural contexts, with emphasis on literary concepts and terminology, analysis, research and writing practices, and interpretation.

**SPAN 3211. Literature and Culture of Latin America.** (HUM; 4 cr; prereq 3012, 3112, or #; fall, every year)

Study of important exemplary works of Latin American literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

**SPAN 3212. Literature and Culture of Spain.** (HUM; 4 cr; prereq 3012, 3112, or #; spring, every year)

Study of important exemplary works of Spanish (peninsular) literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

**SPAN 3651. Seminar: Miguel de Cervantes Saavedra's "El ingenioso hidalgo Don Quijote de la Mancha".** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)

Study of Miguel de Cervantes Saavedra's novel "El ingenioso hidalgo Don Quijote de la Mancha" in light of its socio-historical context.

**SPAN 3654. Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)

The theme of sex, love, and marriage in Golden Age Spanish Literature through prose, poetry, and theatre of the Golden Age (XVI–XVII centuries) Spain. Consideration of the gender relations and gender politics reflected in the works and the socio-historical context in which these works were produced.

**SPAN 3681. Seminar: Romanticism and Revolution in 19th-Century Spain.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)

Study of representative texts (prose and poetry) from the first half of the 19th century in Spain, with emphasis on the expression of the Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservatism.

**SPAN 3682. Seminar: Realism and Reform in 19th-Century Spain.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)

Study of representative texts (novels, stories, and essays) from the second half of the 19th century in Spain, with emphasis on the rise of realism as an exploration of the socio-political reality of the era and the need for reform. The focus is on general trends in Western cultures (e.g., industrialization, positivism, secularization).

**SPAN 3683. Seminar: Modernity and Identity in Spain, 1900-1930.** (HUM; 4 cr; prereq 3012, 3112, or #; fall, offered periodically)

Study of representative texts (prose and poetry) from the early decades of the 20th century in Spain with particular emphasis on their responses to changes brought by modernity: advancing technology, modern psychology, political experimentation, spiritual exploration, and artistic innovation.

**SPAN 3684. Seminar: Hispanic Film.** (HUM; 4 cr; prereq 3012, 3112 or #; spring, offered periodically)

View, study, and discuss relevant Hispanic films from Spain, Latin America, and the U.S.A. Consider films' cinematic techniques and their specific socio-cultural and socio-political contexts.

**SPAN 3685. Seminar: Slavery and Abolition in Cuban Literature and Culture.** (IP; 4 cr; prereq 3012, 3112, or #; fall, spring, offered periodically)

A study of the major texts surrounding Cuban slavery from the 1812 Aponte slave rebellion to independence from Spain in 1898. How did 19th-century writers depict Cuban slave society? What was the relationship between literature, abolition, and independence?

**SPAN 3686. Seminar: Writing History in Spanish American Literature.** (HUM; 4 cr; prereq 3011, 3012, or #; fall, spring, offered periodically)

A study of 20th–and 21st-century Latin American historical novels and the colonial and 19th-century texts on which they are based. How and why is the past mobilized to meet the needs of the present? How do historical events continue to haunt the present day?

**SPAN 3687. Seminar: Afro-Hispanic Literature and Culture.** (HDIV; 4 cr; prereq 3011, 3012, or #; fall, spring, offered periodically)

An overview of the literature and culture of peoples of African descent in Spanish America from the colonial period to present day. How have Afro-Hispanics been marginalized from national projects in Spanish America? To what extent and under what circumstances has the group been included? How have Afro-Hispanic writers responded to larger culture?

**SPAN 4001. Research Symposium.** (HUM; 4 cr; A-F only; prereq #; spring, every year)

A capstone experience for majors, consisting of an introduction to research methods and critical approaches to literature, as well as development of an independent research project and presentation. Spanish majors are required to complete a minimum of 16 of the 20 required credits at the 32xx and 36xx levels prior to registering for Span 4001. It is recommended to have all 20 of these credits completed prior to taking Span 4001.

## Management (MGMT)

### *Division of the Social Sciences*

This discipline offers a multidisciplinary liberal arts-based program that allows students to enter the field of management as a professional or proceed to graduate studies.

**Objectives**—The management curriculum focuses on areas of human knowledge that concern the operation and control of business and nonprofit organizations. In addition to developing competence in analytical and core business areas, students majoring in the field are expected to learn to critically examine business and other institutions from a liberal arts perspective. Specifically, management students:

1. understand and use a variety of techniques to manage financial, human, and material resources
2. are able to critically conceptualize business problems and to develop appropriate strategies for problem solving
3. understand and use a variety of quantitative analysis techniques appropriate for business
4. develop collaborative skills
5. be competent in written and oral communication
6. develop competence in computer skills
7. are prepared for professional careers in business or public service, or for graduate studies
8. are able to see relationships between management and other liberal arts disciplines

## Management Major

Students intending on going to graduate school are strongly recommended to take MATH 1101-1102. Students are also recommended to take PHIL 2112, if not required to do so. Prospective majors should see a management faculty member before registering for classes. Consultation with an adviser is essential to program planning.

Requirements for the major include successful completion of each of the following four elements:

- 1) the management core
- 2) the 3000-level elective management block
- 3) the elective management capstone block
- 4) a program sub-plan in either Financial and Organizational Management (F&OM) or Global Business (GB)

Grades of D or D+ in MGMT 2101-2102, ECON 1111-1112, STAT 1601 or 2601 may not be used to meet the major requirements.

Up to 4 credits of other coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. No coursework for the major may be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

No more than 4 credits from each of the following can be applied to the major:

ECON 4501–Senior Research Seminar in Economics and Management,  
MGMT x993–Directed Study.

### Element 1: The Management Core

Students must successfully complete all of the courses below in order to satisfy this element of the major.

Students should complete all but ECON 3113 and MGMT 3601 during their first two years.

CMR 1052–Introduction to Public Speaking [E/CR] (2 cr)  
ECON 1111–Principles of Microeconomics [SS] (4 cr)  
ECON 1112–Principles of Macroeconomics [SS] (4 cr)  
ECON 3113–Money, Banking, and Financial Markets [SS] (4 cr)  
MGMT 2101–Principles of Accounting I (4 cr)  
MGMT 3601–Transnational Enterprise [IP] (4 cr)  
STAT 1601–Introduction to Statistics [M/SR] (4 cr)  
or STAT 2601–Statistical Methods [M/SR] (4 cr)

### Element 2: 3000-level Elective Management Block

Students must successfully complete 8 or more credits from the list below, exclusive of coursework used to satisfy sub-plan requirements.

*Take 8 or more credits from the following:*

ECON 3005–Experimental and Behavioral Economics I [SS] (2 cr)  
ECON 3006–Experimental and Behavioral Economics II [SS] (2 cr)  
ECON 3007–Environmental and Natural Resource Economics I [ENVT] (2 cr)  
ECON 3008–Environmental and Natural Resource Economics II [ENVT] (2 cr)  
ECON 3009–Political Economy [SS] (4 cr)  
ECON 3011–Cost-Benefit Analysis [ENVT] (4 cr)  
ECON 3014–Game Theory: The Theory of Strategic Behavior I [SS] (2 cr)  
ECON 3015–Game Theory: The Theory of Strategic Behavior II [SS] (2 cr)  
ECON 3121–Public Economics I [SS] (2 cr)  
ECON 3122–Public Economics II [SS] (2 cr)  
ECON 3131–Comparative Economic Systems [IP] (2 cr)  
ECON 3133–Economics of China [IP] (2 cr)  
ECON 3134–Cooperative Business Model [SS] (2 cr)  
ECON 3141–Economic Development and Growth I [IP] (2 cr)  
ECON 3142–Economic Development and Growth II [IP] (2 cr)  
ECON 3153–Contemporary Global Economic Issues [IP] (2 cr)  
ECON 3202–Macroeconomic Theory [SS] (4 cr)  
ECON 3211–History of Economic Thought I [HIST] (2 cr)  
ECON 3212–History of Economic Thought II [HIST] (2 cr)  
ECON 3351–Globalization: Examining India's Social and Economic Development [IP] (4 cr)  
ECON 3501–Introduction to Econometrics [M/SR] (4 cr)  
ECON 3993–Directed Study (1–5 cr)  
ENST 3101–Industrial Ecology (4 cr)  
MGMT 3101–Financial Management [SS] (4 cr)  
MGMT 3102–Financial Institutions [SS] (2 cr)  
MGMT 3133–Managerial Accounting (4 cr)  
MGMT 3134–Cooperative Business Model (2 cr)  
MGMT 3141–Business Law I (2 cr)  
MGMT 3142–Business Law II (2 cr)  
MGMT 3151–Human Resources Management I [E/CR] (2 cr)  
MGMT 3152–Human Resources Management II [HDIV] (2 cr)  
MGMT 3161–Labor Management Relations I [E/CR] (2 cr)

MGMT 3162–Labor Management Relations II [SS] (2 cr)  
MGMT 3171–Leadership in Organizations [SS] (2 cr)  
MGMT 3201–Marketing Principles and Strategy [SS] (4 cr)  
MGMT 3221–Management and Organization Theory [SS] (4 cr)  
MGMT 3351–Globalization: Examining India's Social and Economic Development [IP] (4 cr)  
MGMT 3352–Emerging Markets in Asia [IP] (4 cr)  
MGMT 3501–Applied Deterministic Modeling for Management Science (2 cr)  
MGMT 3502–Applied Probabilistic Modeling for Management Science (2 cr)  
MGMT 3503–Consumer Behavior [SS] (4 cr)  
MGMT 3513–Negotiation (4 cr)  
MGMT 3701–Organizational Behavior [SS] (4 cr)  
MGMT 3993–Directed Study (1–5 cr)  
PSY 3503–Consumer Behavior [SS] (4 cr)  
ECON 3201–Microeconomic Theory [SS] (4 cr)  
or MGMT 3123–Managerial Economics [SS] (4 cr)

### Element 3: Elective Management Capstone Block

Students must successfully complete 4 or more credits from the list below.

*Take 4 or more credits from the following:*

ECON 4101–Labor Economics I [HDIV] (2 cr)  
ECON 4102–Labor Economics II (2 cr)  
ECON 4111–Mathematical Economics I (2 cr)  
ECON 4112–Mathematical Economics II (2 cr)  
ECON 4121–International Trade Theory (2 cr)  
ECON 4131–International Finance (2 cr)  
ECON 4141–Empirics of Economic Growth (2 cr)  
ECON 4501–Senior Research Seminar in Economics and Management (2 cr)  
ECON 4993–Directed Study (1–5 cr)  
MGMT 4101–Investment and Portfolio Analysis (4 cr)  
MGMT 4201–The Economics of Corporate Strategy I (2 cr)  
MGMT 4202–The Economics of Corporate Strategy II (2 cr)  
MGMT 4501–Globalization and Business Strategy (2 cr)  
MGMT 4502–Technological Change, Labor Market, and Skill Formation (2 cr)  
MGMT 4505–International Managerial Finance (2 cr)  
MGMT 4601–Advanced Topics in Financial Economics (2 cr)  
MGMT 4602–Long-Term Financing (2 cr)  
MGMT 4603–Working Capital Management (2 cr)  
MGMT 4896–Internship (1–4 cr)  
MGMT 4993–Directed Study (1–5 cr)

### Element 4: Program Sub-plans

Students are required to complete one of the following sub-plans. (Note: The honors sub-plan does not meet this requirement. Honors students are required to complete one sub-plan plus the honors sub-plan. Please see an adviser if no honors sub-plan is listed for the program.)

#### Financial and Organizational Management (F&OM) Sub-plan

The Financial and Organizational Management (F&OM) Sub-Plan requires completion of the following elements:

1. the F&OM Required Courses Block
2. the F&OM Elective Courses Block

#### F&OM Sub-Plan Element 1: The F&OM Required Courses Block

Students must successfully complete the list of courses below.  
MGMT 2102–Principles of Accounting II (2 cr)  
MGMT 3101–Financial Management [SS] (4 cr)  
MGMT 3701–Organizational Behavior [SS] (4 cr)  
MGMT 3123–Managerial Economics [SS] (4 cr)  
or ECON 3201–Microeconomic Theory [SS] (4 cr)  
MATH 1021–Survey of Calculus [M/SR] (4 cr)  
or MATH 1101–Calculus I [M/SR] (5 cr)

**F&OM Sub-Plan Element 2: The F&OM Elective Courses Block**

Take 4 or more credits from the following:

CSCI 1251–Computational Data Management and Manipulation [M/SR] (4 cr)  
PHIL 2112–Professional Ethics [E/CR] (4 cr)

**Global Business Sub-plan**

The Global Business (GB) Sub-Plan requires completion of the following elements:

1. the GB Language Block
2. the GB Skills and Perspectives Block
3. the GB General Electives Block

**GB Sub-Plan Element 1: The GB Language Block**

Students must complete 8 credits of French, German, Spanish, or other approved language of international commerce at 2xxx level or above.

**GB Sub-Plan Element 2: The Skills and Perspectives Block**

Take 8 or more credits from the following:

CSCI 1251–Computational Data Management and Manipulation [M/SR] (4 cr)  
MATH 1021–Survey of Calculus [M/SR] (4 cr)  
or MATH 1101–Calculus I [M/SR] (5 cr)  
PHIL 2112–Professional Ethics [E/CR] (4 cr)

**GB Sub-Plan Element 3: The GB General Electives Block**

Take 6 or more credits from the following:

ECON 3131–Comparative Economic Systems [IP] (2 cr)  
ECON 3133–Economics of China [IP] (2 cr)  
ECON 3141–Economic Development and Growth I [IP] (2 cr)  
ECON 3142–Economic Development and Growth II [IP] (2 cr)  
ECON 3153–Contemporary Global Economic Issues [IP] (2 cr)  
ECON 3351–Globalization: Examining India's Social and Economic Development [IP] (4 cr)  
ECON 4121–International Trade Theory (2 cr)  
ECON 4131–International Finance (2 cr)  
MGMT 3351–Globalization: Examining India's Social and Economic Development [IP] (4 cr)  
MGMT 3352–Emerging Markets in Asia [IP] (4 cr)  
MGMT 4501–Globalization and Business Strategy (2 cr)  
MGMT 4502–Technological Change, Labor Market, and Skill Formation (2 cr)  
MGMT 4505–International Managerial Finance (2 cr)

**Management Minor**

Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

**Required Courses**

Grades of D or D+ in MGMT 2101-2102 or ECON 1111-1112 may not be used to meet minor requirements.

ECON 1111–Principles of Microeconomics [SS] (4 cr)  
ECON 1112–Principles of Macroeconomics [SS] (4 cr)  
MGMT 2101–Principles of Accounting I (4 cr)  
MGMT 2102–Principles of Accounting II (2 cr)

**Elective Courses**

No more than 4 credits from MGMT x993–Directed Study can be applied to the minor.

Take 12 or more credits from the following:

MGMT 3101–Financial Management [SS] (4 cr)  
MGMT 3102–Financial Institutions [SS] (2 cr)  
MGMT 3123–Managerial Economics [SS] (4 cr)  
MGMT 3133–Managerial Accounting (4 cr)  
MGMT 3134–Cooperative Business Model (2 cr)  
MGMT 3141–Business Law I (2 cr)  
MGMT 3142–Business Law II (2 cr)  
MGMT 3151–Human Resources Management I [E/CR] (2 cr)  
MGMT 3152–Human Resources Management II [HDIV] (2 cr)  
MGMT 3161–Labor Management Relations I [E/CR] (2 cr)  
MGMT 3162–Labor Management Relations II [SS] (2 cr)

MGMT 3171–Leadership in Organizations [SS] (2 cr)  
MGMT 3201–Marketing Principles and Strategy [SS] (4 cr)  
MGMT 3221–Management and Organization Theory [SS] (4 cr)  
MGMT 3351–Globalization: Examining India's Social and Economic Development [IP] (4 cr)  
MGMT 3352–Emerging Markets in Asia [IP] (4 cr)  
MGMT 3501–Applied Deterministic Modeling for Management Science (2 cr)  
MGMT 3502–Applied Probabilistic Modeling for Management Science (2 cr)  
MGMT 3503–Consumer Behavior [SS] (4 cr)  
MGMT 3513–Negotiation (4 cr)  
MGMT 3601–Transnational Enterprise [IP] (4 cr)  
MGMT 3701–Organizational Behavior [SS] (4 cr)  
MGMT 3993–Directed Study (1–5 cr)  
MGMT 4101–Investment and Portfolio Analysis (4 cr)  
MGMT 4201–The Economics of Corporate Strategy I (2 cr)  
MGMT 4202–The Economics of Corporate Strategy II (2 cr)  
MGMT 4501–Globalization and Business Strategy (2 cr)  
MGMT 4502–Technological Change, Labor Market, and Skill Formation (2 cr)  
MGMT 4505–International Managerial Finance (2 cr)  
MGMT 4601–Advanced Topics in Financial Economics (2 cr)  
MGMT 4602–Long-Term Financing (2 cr)  
MGMT 4603–Working Capital Management (2 cr)  
MGMT 4896–Internship (1–4 cr)  
MGMT 4993–Directed Study (1–5 cr)  
MGMT 3xxx, 4xxx

**Management Course Descriptions**

**MGMT 1011. Fundamentals of Personal Finance.** (SS; 2 cr; spring, offered periodically)

An application-based personal finance course to help students with lifetime financial planning and decision making. Focus on personal responsibility with respect to understanding financial instruments and their functions including: stocks, bonds, money markets, mutual funds, and derivatives. Also learn about savings, retirement, and social insurance vehicles including social security, Medicare, defined contribution, and defined benefit plans along with various individual retirement accounts. A way of thinking about personal finance that incorporates knowledge of current financial institutions, structures, and markets; time value of money; risk analysis; and available budgeting tools.

**MGMT 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**MGMT 2101. Principles of Accounting I.** (4 cr; fall, every year)

An introductory course in accounting principles and practices. The students develop an understanding of both the conceptual and procedural framework of the accounting processes. Emphasis is placed on the preparation and communication of accounting information and the financial statements for a proprietorship.

**MGMT 2102. Principles of Accounting II.** (2 cr; prereq 2101; spring, every year)

A continuation of Principles of Accounting I. Students develop an understanding of the issues unique to partnerships, corporations, and organizational financing. Cash flow statements and performance analysis are also emphasized.

**MGMT 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**MGMT 3101. Financial Management.** (SS; 4 cr; prereq 2102, Econ 1111, Econ 1112, Stat 1601; fall, every year)

Fundamental theories of financial management, their applications, and their limitations in solving real business problems. Emphasis on financial analysis, valuation of future cash flows, capital budgeting, risk and return, cost of capital.

**MGMT 3102. Financial Institutions.** (SS; 2 cr; prereq 2101, Econ 1111, Econ 1112; spring, offered periodically)

An introduction to the functioning and management of financial institutions such as: the banking industry, mutual fund industry, insurance companies, pension funds, investment banks, and venture capital firms.

**MGMT 3123. Managerial Economics.** (SS; 4 cr; prereq 2101, Econ 1111, Math 1101 or Math 1021, Stat 1601 or Stat 2601 or #; no credit for students who have received credit for Econ 3201; spring, every year) Development of the basic concepts of the microeconomic theories of consumer behavior, the firm, and market structure, in application to managerial decision-making contexts in the operation and control of business and non-profit organizations.

**MGMT 3133. Managerial Accounting.** (4 cr; prereq 2102; fall, spring, offered periodically)

Managerial accounting is designed to help managers assess needed information to carry out three essential functions in an organization: planning operations, controlling activities, and making decisions. The emphasis of this course is placed on cost behaviors, various product costing methods, cost-volume-profit relationships, budgeting and control through standard costs, and other quantitative techniques used by management.

**MGMT 3134. Cooperative Business Model.** (2 cr; =[ECON 3134]; prereq Econ 1111 or #; spring, even years)

Same as Econ 3134. In the northern plains of the United States, cooperative businesses, including consumer, producer, and worker cooperatives, have made significant contributions to economic growth and development. Identify the unique economic, legal, and organizational characteristics of these firms and their role in the economy. Special attention is given to the potential role of cooperative business organizations in community development.

**MGMT 3141. Business Law I.** (2 cr; prereq 2101 or #; spring, every year) Law as it relates to the commercial world, including the legal environment, federal regulation, contracts, intellectual property law, business torts, and white collar crimes.

**MGMT 3142. Business Law II.** (2 cr; prereq 2101 or #; spring, every year)

Law as it relates to the commercial world, including the mortgage foreclosure crisis, business organizations, corporations, secured transactions, bankruptcy, agency and securities regulations.

**MGMT 3151. Human Resources Management I.** (E/CR; 2 cr; prereq 2101 or #; fall, every year)

An introduction to the functional areas of human resource management through the use of case studies. Topics include legal issues, planning, recruitment, training, evaluation, compensation, and benefits.

**MGMT 3152. Human Resources Management II.** (HDIV; 2 cr; prereq 3151 or #; fall, every year)

Topics in human resource management: evaluating employee performance, training, safety, labor relations, international human resource management.

**MGMT 3161. Labor Management Relations I.** (E/CR; 2 cr; prereq Econ 1111 or #; fall, spring, offered periodically)

Historical development of labor relations and the legal framework governing collective bargaining. Labor relations law reform. Case studies from labor relations law.

**MGMT 3162. Labor Management Relations II.** (SS; 2 cr; prereq 3161 or #; spring, offered periodically)

Issues in labor-management negotiation, grievances, wages and economic security plans, public policies toward collective bargaining. Case studies from labor arbitration.

**MGMT 3171. Leadership in Organizations.** (SS; 2 cr; prereq Stat 1601 or Stat 2601 or #; fall, every year)

Leadership is the ability to influence a group of people towards a goal. Examination of leadership qualities and theories as they apply to leading an organization. Ethics, social responsibility, team work, motivation, and conflict resolution skills from the perspective of a leader. International and culturally diverse aspects of leadership and leadership development. Students have the opportunity to practice leadership skills during the course.

**MGMT 3201. Marketing Principles and Strategy.** (SS; 4 cr; prereq 2102, Stat 1601 or #; spring, offered periodically)

Basic factors affecting policy and strategy issues in marketing. Economic, legal, behavioral, environmental, competitive, and technological factors as they affect product, pricing, promotion, and marketing-channel decisions.

**MGMT 3221. Management and Organization Theory.** (SS; 4 cr; prereq 2101, Econ 1111 or #; fall, spring, offered periodically)

Theory, research, and practice of management. Planning, organizing, leading, controlling. Emphasizes goals, policies, procedures. Factors and human relationships necessary to achieve organizational success.

Organizational structure/culture. Changing environment in which businesses operate.

**MGMT 3351. Globalization: Examining India's Social and Economic Development.** (IP; 4 cr; =[ECON 3351]; prereq Econ 1111 or Econ 1112 or #; spring, offered periodically) Same as Econ 3351. Observe and study the impact of globalization on the Indian economy. Examine the growing class divide between the middle and upper middle class and the lower class. Study the problem of mass poverty in India and its various ramifications such as child labor, lack of education and basic health care, and the inherent gender bias. Examine sustainable grass roots efforts to combat some of these problems.

**MGMT 3352. Emerging Markets in Asia.** (IP; 4 cr; prereq Econ 1111, Econ 1112, Stat 1601 or Stat 2601 or #; fall, every year)

An overview of the largest and fastest-growing markets in the world, the Asian markets. Examines topics such as business strategy and organization, marketing strategies, and business-State relations in Asia. Theory is balanced with practice by including comparative studies and business case studies.

**MGMT 3501. Applied Deterministic Modeling for Management Science.** (2 cr; =[MATH 3501]; prereq 2102, Math 1101 or Stat 1601 or Stat 2601 or #; spring, every year)

Same as Math 3501. Formulations of real-world problems as Linear Programming or Integer Linear Programming models; graphical solutions of some LP-models. Linear Programming: the Simplex method, intuitive ideas behind the Simplex method. Using software to solve LP problems; interpreting optimal solutions; sensitivity analysis; duality. Network diagram representation; critical path method (CPM-PERT); transportation problem.

**MGMT 3502. Applied Probabilistic Modeling for Management Science.** (2 cr; =[MATH 3502]; prereq 2102, Math 1101 or Stat 1601 or Stat 2601 or #; spring, every year)

Same as Math 3502. Short review of probability and statistics; mean and variance of a data set; discrete and continuous random variables (especially the exponential distribution and the Poisson distribution). Decision and game theory. Decision trees, types of decision criteria. Queueing models, birth-and-death processes; Markovian or Poisson arrivals and exponential service times; M/M/k and M/M/8 queues; Statistical Quality Control; inventory control system.

**MGMT 3503. Consumer Behavior.** (SS; 4 cr; =[PSY 3503]; prereq Stat 1601 or Stat 2601 or #; spring, every year)

Same as Psy 3503. Psychological basis for understanding consumers. Some of the topics include consumer behavior, consumer cognitive processes, and consumer judgments and decisions.

**MGMT 3513. Negotiation.** (4 cr; =[PSY 3513]; prereq 3221 or Psy 3501 or Psy/Mgmt 3701; spring, offered periodically)

Same as Psy 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

**MGMT 3601. Transnational Enterprise.** (IP; 4 cr; prereq 2101, Econ 1111, Econ 1112 or #; spring, every year)

Development and transformation of business enterprise within the global economy emerging from time and motion studies, mergers, "corporate revolution," Fordism through to multi-plant manufacturing beyond national boundaries. Includes the basic impact of structural, institutional, and organizational change upon the dynamics of the firm and industry in the contemporary hyper-competitive, technology-driven, fast-paced, global environment.

**MGMT 3701. Organizational Behavior.** (SS; 4 cr; =[PSY 3701]; prereq Stat 1601 or Stat 2601, jr or sr; fall, spring, offered periodically)

Same as Psy 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

**MGMT 3703. Health Care Markets and Institutions.** (4 cr; prereq 2101, Econ 1111, Stat 1601 or Stat 2601, or #; spring, offered periodically)

The institutional details and market structures of the health care industry are studied through the lens of economic analysis, providing a context for managerial decision making. Topics include the roles of patients, physicians, and hospitals (both for-profit and non-profit), the effect of insurance on the supply of and demand for health care, and the role of the pharmaceutical industry. Market imperfections and government regulatory intervention are discussed.

**MGMT 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**MGMT 4101. Investment and Portfolio Analysis.** (4 cr; prereq 2101, 2102, 3101; spring, every year)  
The institutional environment of investment, techniques used to price financial products, and how to design a portfolio of many assets.

**MGMT 4201. The Economics of Corporate Strategy I.** (2 cr; prereq 3123 or Econ 3201, Math 1021 or Math 1101, or #; fall, spring, offered periodically)  
Setting the horizontal boundaries (e.g., which lines of business) and vertical boundaries (whether to make or buy inputs and outputs) of the firm, considered as strategic decisions. The different types of competition associated with distinct market structures.

**MGMT 4202. The Economics of Corporate Strategy II.** (2 cr; prereq 4201; fall, spring, offered periodically)  
Tools for analyzing business strategies: credible strategic commitments, pricing rivalries, entry and exit, Porter's five forces framework, and the relationship between value creation and strategic market positioning.

**MGMT 4501. Globalization and Business Strategy.** (2 cr; prereq 3601 or #; fall, spring, offered periodically)  
Review of the impact of increasing globalization of the corporate and economic environment; application of strategic methods to new business conditions.

**MGMT 4502. Technological Change, Labor Market, and Skill Formation.** (2 cr; prereq 3601 or #; fall, spring, offered periodically)  
The change of technology in relation to the formation of skills and transformation of regional labor markets throughout the world. The intimate relationship between "skilling" and "deskilling" of labor and the transformation of technology.

**MGMT 4505. International Managerial Finance.** (2 cr; prereq 3101 or #; spring, offered periodically)  
An introduction to the international dimensions of corporate financing, investment, and risk management decisions. Foreign exchange markets, international financial systems, foreign exchange rate determination, measuring/ managing currency risk, multinational capital budgeting, cost of capital in emerging economies, international taxation policies, and transfer pricing.

**MGMT 4601. Advanced Topics in Financial Economics.** (2 cr; prereq 3101 or #; fall, spring, offered periodically)  
Continuation of Mgmt 3101. Topics include dividend policy, hybrid financing, derivatives, and mergers.

**MGMT 4602. Long-Term Financing.** (2 cr; prereq 3101 or #; fall, offered periodically)  
Application of the fundamental financial theories acquired in Mgmt 3101 to long-term financing in corporations. The primary focus is on issuing securities to the public, financial leverage, capital structure policy, dividend policy, and leasing.

**MGMT 4603. Working Capital Management.** (2 cr; prereq 3101 or #; fall, offered periodically)  
Application of the fundamental financial theories acquired in Mgmt 3101 to working capital management in corporations. The primary focus is on financial planning, cash management, credit management, and risk management.

**MGMT 4896. Internship.** (1-4 cr; prereq: 2102; S-N only; 2 cr may be applied to major or minor; fall, spring, every year)  
Supervised educational experience and field application relevant to student's major. Written analysis appropriate to the application is required.

**MGMT 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Mathematics (MATH)

### *Division of Science and Mathematics*

**Objectives**—The mission of the discipline is to advance knowledge of mathematics by teaching mathematics and its processes, by research in mathematics and mathematical pedagogy, and by dissemination of this knowledge to students and the community we serve.

Historically, the study of mathematics has been central to a liberal arts education. The mathematics curriculum serves as an integral part of students' active pursuit of a liberal arts education. The mathematics program serves students who major or minor in mathematics, seek secondary mathematics teaching licensure, major or minor in programs that require a mathematical background, or wish to fulfill components of a general education.

The mathematics curriculum is designed to help students develop competence in problem-solving, mathematical techniques and methods; to sharpen students' mathematical intuition and abstract reasoning, as well as their quantitative literacy. The curriculum is also designed to encourage and stimulate the type of independent and critical thinking required for research beyond the confines of the textbook. It provide students with the basic knowledge and skills to make mathematical contributions to modern society. The mathematics program enables students to do in-depth and independent mathematics-related research projects that require students to integrate their mathematical knowledge from different areas, and to enhance their communication skills by way of written reports and oral presentations. The program seeks to enable students to observe and communicate how the development of mathematics has been part of historical and current cultural and scientific developments. The curriculum prepares students to enter graduate school, pursue careers in applied mathematics, or teach mathematics.

## Mathematics Major

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced. Courses may not be taken S-N unless offered S-N only. Up to 5 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of B–or above in courses at or above 2xxx. Exceptions to requirements may be granted on an individual basis, after consulting with the math faculty.

Majors should begin with MATH 1012–PreCalculus I or MATH 1013–PreCalculus II or MATH 1101–Calculus I. Students with questions about placement are encouraged to discuss them with members of the mathematics faculty.

Recommended electives for students planning to pursue graduate work in pure mathematics: MATH 4201–Complex Analysis

MATH 4211–Real Analysis  
MATH 4221–Topology  
MATH 4231–Abstract Algebra II  
MATH 4241–Number Theory  
MATH 4252–Differential Geometry  
MATH 4253–Combinatorics

Recommended electives for students planning to work or pursue graduate work in applied mathematics or related fields:

MATH 2401–Differential Equations  
MATH 3401–Operations Research  
MATH 3411–Discrete and Combinatorial Mathematics  
MATH 4401–Numerical Methods With Applications in  
Mathematical Modeling  
MATH 4452–Mathematical Modeling

### **Residency Requirement**

Students must complete a minimum of three 3xxx or higher math courses at UMM.

### **Required Courses**

MATH 1101–Calculus I [M/SR] (5 cr)  
MATH 1102–Calculus II [M/SR] (5 cr)  
MATH 2101–Calculus III [M/SR] (4 cr)  
MATH 2111–Linear Algebra [M/SR] (4 cr)  
MATH 2202–Mathematical Perspectives [M/SR] (4 cr)  
MATH 3221–Real Analysis I (4 cr)  
MATH 3231–Abstract Algebra I (4 cr)  
MATH 4901–Senior Seminar (2 cr)



Take 1 or more courses from the following:

MATH 2401–Differential Equations [M/SR] (4 cr)  
 MATH 3401–Operations Research (4 cr)  
 MATH 3411–Discrete and Combinatorial Mathematics (4 cr)  
 MATH 4401–Numerical Methods with Applications in Mathematical Modeling (4 cr)  
 MATH 4452–Mathematical Modeling (4 cr)

Take 4 or more credits from the following:

MATH 2xxx, 3xxx, 4xxx

Take 1 or more courses from the following:

CSCI 1201–Introduction to Digital Media Computation [M/SR] (4 cr)  
 CSCI 1301–Problem Solving and Algorithm Development [M/SR] (4 cr)

Take 1 or more courses from the following:

STAT 2601–Statistical Methods [M/SR] (4 cr)  
 STAT 2611–Mathematical Statistics [M/SR] (4 cr)

### Mathematical Applications Course

Take 1 or more courses from the following:

CHEM 3501–Physical Chemistry I [SCI] (4 cr)  
 CSCI 2101–Data Structures [M/SR] (5 cr)  
 CSCI 3402–Computing Systems: Concepts (3 cr)  
 CSCI 3501–Algorithms and Computability [M/SR] (5 cr)  
 CSCI 3601–Software Design and Development [M/SR] (5 cr)  
 ECON 3201–Microeconomic Theory [SS] (4 cr)  
 ECON 3202–Macroeconomic Theory [SS] (4 cr)  
 ECON 3501–Introduction to Econometrics [M/SR] (4 cr)  
 ECON 4111–Mathematical Economics I (2 cr)  
 ECON 4112–Mathematical Economics II (2 cr)  
 GEOL 3401–Geophysics [SCI] (4 cr)  
 GEOL 3501–Hydrology [SCI] (4 cr)  
 MATH 3501–Applied Deterministic Modeling for Management Science (2 cr)  
 MATH 3502–Applied Probabilistic Modeling for Management Science (2 cr)  
 PHIL 2101–Introduction to Symbolic Logic [M/SR] (4 cr)  
 PHYS 1101–General Physics I [SCI-L] (5 cr)  
 PHYS 1102–General Physics II [SCI-L] (5 cr)  
 PHYS 2101–Modern Physics [SCI-L] (4 cr)  
 PHYS 2401–Optics [SCI-L] (4 cr)  
 PHYS 3101–Classical Mechanics [SCI] (4 cr)  
 PHYS 4101–Electromagnetism (4 cr)  
 PHYS 4201–Quantum Mechanics (4 cr)  
 STAT 3601–Data Analysis [M/SR] (4 cr)  
 STAT 3611–Multivariate Statistical Analysis [M/SR] (4 cr)  
 STAT 4601–Biostatistics (4 cr)

## Mathematics Minor

Courses may not be taken S-N unless offered S-N only. Up to 5 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of B– or above in courses at or above the 2XXX level. The GPA in these courses must be at least 2.00.

### Required Courses

MATH 1101–Calculus I [M/SR] (5 cr)  
 MATH 1102–Calculus II [M/SR] (5 cr)  
 MATH 2111–Linear Algebra [M/SR] (4 cr)

### Elective Courses

Take 12 or more credits from the following:

MATH 2101–Calculus III [M/SR] (4 cr)  
 MATH 2202–Mathematical Perspectives [M/SR] (4 cr)  
 MATH 2211–History of Mathematics (4 cr)  
 MATH 2401–Differential Equations [M/SR] (4 cr)  
 MATH 2501–Probability and Stochastic Processes [M/SR] (4 cr)  
 MATH 3211–Geometry [M/SR] (4 cr)  
 MATH 3221–Real Analysis I (4 cr)  
 MATH 3231–Abstract Algebra I (4 cr)  
 MATH 3401–Operations Research (4 cr)  
 MATH 3411–Discrete and Combinatorial Mathematics (4 cr)  
 MATH 3501–Applied Deterministic Modeling for Management Science (2 cr)

MATH 3502–Applied Probabilistic Modeling for Management Science (2 cr)

MATH 4201–Complex Analysis (2 cr)

MATH 4211–Real Analysis II (2 cr)

MATH 4221–Topology (2 cr)

MATH 4231–Abstract Algebra II (2 cr)

MATH 4241–Number Theory (2 cr)

MATH 4252–Differential Geometry (2 cr)

MATH 4253–Combinatorics (2 cr)

MATH 4401–Numerical Methods with Applications in Mathematical Modeling (4 cr)

MATH 4452–Mathematical Modeling (4 cr)

One of the courses below can be chosen to fulfill 4 elective credits for the math minor

STAT 2601–Statistical Methods [M/SR] (4 cr)

or STAT 2611–Mathematical Statistics [M/SR] (4 cr)

### Teacher Preparation Requirements

Students seeking teaching licensure in mathematics 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

## Mathematics Course Descriptions

**MATH 901. Basic Algebra.** (0 cr [max 4 cr]; 0 cr toward graduation, 4 cr toward financial aid; fall, every year)

Sets, absolute values, linear equations and inequalities, functions and graphs, arithmetic of complex numbers, quadratics, radicals, exponents and logarithms, and linear systems of equations.

**MATH 1001. Excursions in Mathematics.** (M/SR; 4 cr; prereq 2 yrs high school math; fall, spring, every year)

Introduction to the breadth and nature of mathematics and the power of abstract reasoning, with applications to topics that are relevant to the modern world, such as management science, statistics, voting, fair division of assets, symmetry and patterns of growth.

**MATH 1012. PreCalculus I: Functions.** (4 cr; prereq Math 0901 or placement; no credit for students who have received credit for Math 1014; fall, spring, every year)

Linear and quadratic functions, power functions with modeling; polynomial functions of higher degree with modeling; real zeros of polynomial functions; rational functions; solving equations in one variable; solving systems of equations; exponential and logarithmic functions, and the graphs of these functions.

**MATH 1013. PreCalculus II: Trigonometry.** (M/SR; 2 cr; prereq Math 0901 or placement; no credit for students who have received credit for Math 1014; fall, spring, every year)

Angles and their measures; trigonometric functions; the circular functions of trigonometry; graphs of sine, cosine, tangent, cosecant, secant, and cotangent functions; algebra of trigonometric functions; inverse trigonometric functions; solving problems with trigonometry; analytic trigonometry; fundamental trig identities; proving trigonometric identities; sum and difference identities; multiple-angle identities; the Law of Sines; the Law of Cosines.

**MATH 1014. Intensive Pre-Calculus.** (M/SR; 4 cr; prereq second year of high school algebra, college consent; fall, spring, offered periodically)

Offered online only. Linear and quadratic functions, power functions with modeling; polynomial functions of higher degree with modeling; real zeros of polynomial functions; rational functions; solving equations in one variable; solving systems of equations; exponential and logarithmic functions, and the graphs of these functions. Angles and their measures; trigonometric functions; the circular functions of trigonometry; graphs of sine, cosine, tangent, cosecant, secant, and cotangent functions; algebra of trigonometric functions; inverse trigonometric functions; solving problems with trigonometry; analytic trigonometry; fundamental trig identities; proving trigonometric identities; sum and difference identities; multiple-angle identities; the Law of Sines; the Law of Cosines.

**MATH 1021. Survey of Calculus.** (M/SR; 4 cr; prereq 1012 or placement; credit will not be granted for Math 1021 if a grade of C– or higher has previously been received for Math 1101; spring, every year)

Short course for students in social sciences, biological sciences, and other areas requiring a minimal amount of calculus. Topics include basic concepts of functions, derivatives and integrals, exponential and logarithmic functions, maxima and minima, partial derivatives; applications.

**MATH 1101. Calculus I.** (M/SR; 5 cr; prereq 1012, 1013 or placement; fall, spring, every year)

Limits and continuity; the concepts, properties, and some techniques of differentiation, antidifferentiation, and definite integration and their connection by the Fundamental Theorem. Partial differentiation. Some applications. Students learn the basics of a computer algebra system.

**MATH 1102. Calculus II.** (M/SR; 5 cr; prereq 1101; fall, spring, every year)

Techniques of integration. Further applications involving mathematical modeling and solution of simple differential equations. Taylor's Theorem. Limits of sequences. Use and theory of convergence of power series. Students use a computer algebra system.

**MATH 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**MATH 2101. Calculus III.** (M/SR; 4 cr; prereq 1102 or #; fall, spring, every year)

Multivariable and vector calculus. Three-dimensional analytic geometry; partial differentiation; multiple integration; gradient, divergence, and curl; line and surface integrals; divergence theorem; Green and Stokes theorems; applications.

**MATH 2111. Linear Algebra.** (M/SR; 4 cr; prereq 1102 or #; fall, spring, every year)

Matrix algebra, systems of linear equations, finite dimensional vector spaces, linear transformations, determinants, inner-product spaces, characteristic values and polynomials, eigenspaces, minimal polynomials, diagonalization of matrices, related topics; applications.

**MATH 2202. Mathematical Perspectives.** (M/SR; 4 cr; prereq 1101; spring, every year)

Introduction to the methodology and subject matter of modern mathematics. Logic, sets, functions, relations, cardinality, and induction. Introductory number theory. Roots of complex polynomials. Other selected topics.

**MATH 2211. History of Mathematics.** (4 cr; prereq 1101 or higher or #; fall, even years)

Historical development of various areas in mathematics and important figures in mathematics from ancient to modern times.

**MATH 2212. Introduction to Knot Theory.** (M/SR; 4 cr; prereq 1101 or higher or #; fall, offered periodically)

Introduction to the mathematical study of knots. Presentation, tabulation, and invariants of knots. Additional selected topics from low-dimensional topology.

**MATH 2401. Differential Equations.** (M/SR; 4 cr; prereq 1102 or #; fall, every year)

First-order and second-order differential equations with methods of solution and applications, Laplace transforms, systems of equations, series solutions, existence and uniqueness theorems, the qualitative theory of differential equations.

**MATH 2501. Probability and Stochastic Processes.** (M/SR; 4 cr; =[STAT 2501]; prereq 1101 or #; fall, every year)

Same as Stat 2501. Probability theory; set theory, axiomatic foundations, conditional probability and independence, Bayes' rule, random variables. Transformations and expectations; expected values, moments, and moment generating functions. Common families of distributions; discrete and continuous distributions. Multiple random variables; joint and marginal distributions, conditional distributions and independence, covariance and correlation, multivariate distributions. Properties of random sample and central limit theorem. Markov chains, Poisson processes, birth and death processes, and queuing theory.

**MATH 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**MATH 3211. Geometry.** (M/SR; 4 cr; prereq 1102 or higher or #; fall, odd years)

Synthetic approach to Euclidean and non-Euclidean geometries. Selected topics from affine, hyperbolic, spherical, projective geometries. Possible comparisons of analytic and synthetic approaches. May include other related topics or use of computer software for geometry.

**MATH 3221. Real Analysis I.** (4 cr; prereq 1102, 2202 or #; fall, every year)

Introduction to real analysis. The main topics of single-variable calculus—convergence, continuity, differentiation, and series as they are applied and extended in advanced settings with emphasis on precise statements and rigorous proofs. Structure of the real numbers, open and closed sets. Integration, metric spaces, and other topics and applications as time allows.

**MATH 3231. Abstract Algebra I.** (4 cr; prereq 2111, 2202 or #; spring, every year)

Systematic study of groups and rings, making use of linear algebra. Groups as codifying symmetry throughout mathematics and its applications. The Euclidean algorithm and its consequences, both for integers and polynomials. Other selected topics and applications.

**MATH 3401. Operations Research.** (4 cr; prereq 1101 or higher or #; spring, every year)

Topics include, but not limited to, linear and integer linear programming formulations, sensitivity analysis and duality, network models and applications.

**MATH 3411. Discrete and Combinatorial Mathematics.** (4 cr; prereq 1102 or higher or #; fall, every year)

Propositional logic; equivalence relations; recurrence equations; structures and properties of undirected and directed graphs; applications of the aforementioned topics.

**MATH 3501. Applied Deterministic Modeling for Management**

**Science.** (2 cr; =[MGMT 3501]; prereq 1101 or Stat 1601 or Stat 2601 or Stat 2611, Mgmt 2102 or #; spring, every year)

Same as Mgmt 3501. Formulations of real-world problems as Linear Programming or Integer Linear Programming models; graphical solutions of some LP models. Linear Programming: the Simplex method, intuitive ideas behind the Simplex method. Using software to solve LP problems; interpreting optimal solutions; sensitivity analysis; duality. Network diagram representation; critical path method (CPM-PERT); transportation problem.

**MATH 3502. Applied Probabilistic Modeling for Management**

**Science.** (2 cr; =[MGMT 3502]; prereq 1101 or Stat 1601 or Stat 2601 or Stat 2611, Mgmt 2102 or #; spring, every year)

Same as Mgmt 3502. Short review of probability and statistics; mean and variance of a data set; discrete and continuous random variables (especially the exponential distribution and the Poisson distribution). Decision and game theory. Decision trees, types of decision criteria. Queuing models, birth-and-death processes; Markovian or Poisson arrivals and exponential service times; M/M/k and M/M/8 queues; Statistical Quality Control; inventory control system.

**MATH 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**MATH 4201. Complex Analysis.** (2 cr; prereq 3221 or #; fall, spring, offered periodically)

Differentiable and analytic functions of a complex variable. Contour integral theorems. Laurent expansions. Other topics optional.

**MATH 4211. Real Analysis II.** (2 cr; prereq 3221 or #; fall, spring, offered periodically)

Differentiation of functions of several variables. The extension of integration to other forms of integrals. Introduction to measure theory. Other optional topics.

**MATH 4221. Topology.** (2 cr; prereq 2202 or #; fall, spring, offered periodically)

Selected topics from point set topology and/or algebraic topology.

**MATH 4231. Abstract Algebra II.** (2 cr; prereq 3231 or #; fall, spring, offered periodically)

Selected topics from the theory of finite groups, Galois theory of fields, and/or the theory of rings.

**MATH 4241. Number Theory.** (2 cr; prereq 2202 or #; fall, spring, offered periodically)

Selected topics from modular congruences, theory of primes, classical Diophantine equations, and the connections with algebraic curves.

**MATH 4252. Differential Geometry.** (2 cr; prereq #; fall, spring, offered periodically)

Geometry of curves and surfaces. Frames, curvature, torsion, orientation, differential forms, topological properties of surfaces. The notion of differentiable manifold. Selected applications.

**MATH 4253. Combinatorics.** (2 cr; prereq #; fall, spring, offered periodically)  
Selected topics from graph theory, the theory of ordered sets, and/or enumerative combinatorics.

**MATH 4401. Numerical Methods with Applications in Mathematical Modeling.** (4 cr; prereq 2111, 2401 or #; fall, spring, offered periodically)  
Finite differences; interpolation; numerical integration; numerical solutions of differential, algebraic, and transcendental equations; continuous mathematical models.

**MATH 4452. Mathematical Modeling.** (4 cr; prereq #; fall, spring, offered periodically)  
Mathematical topics include, but are not limited to, differential and difference equations, discrete and continuous dynamical systems, predator-prey models, discrete and continuous optimization models, probabilistic models, stochastic and Poisson processes, and queuing models. Applications are drawn from different areas in the sciences and social sciences.

**MATH 4901. Senior Seminar.** (2 cr; A-F only; prereq sr math major or #; full year course begins fall sem; fall, every year)  
This is a full-year course, required for all mathematics majors in their senior year. Students must attend year round and present one of the seminars.

**MATH 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Music (MUS)

### *Division of the Humanities*

The music curriculum offers a wide range of courses for the music major. It also has strong appeal to the general student, especially in the activities of the instrumental and vocal ensembles.

#### **Objectives:**

1. Musicianship: Students will demonstrate proficiency in aural and keyboard musicianship.
2. Performance: In their area of specialization students will confidently interpret and perform a wide range of music literature in a public venue.
3. Music in a Historic and Cultural Context: Students will listen to and write about music critically and will be able to apply stylistic principles to the music they perform.
4. Music Theory: Students will have a command of undergraduate music theory concepts, contrapuntal techniques, and musical forms.

## Music Major

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Students with advisers in other disciplines are strongly encouraged to consult regularly with a music faculty adviser.

#### **Required Courses**

Music theory courses (1101, 1102, 2101, 2102) are taken concurrently with piano lessons or functional keyboard for the Music Major, Mus 1111, 1112, 2111, 2112 until the piano proficiency test is passed.

Students must enroll in MUS 1000 seven times.

MUS 1000—Concert Attendance (0.5 cr)  
MUS 1101—Core Studies I: Music Theory I [M/SR] (4 cr)  
MUS 1102—Core Studies I: Music Theory II [M/SR] (4 cr)  
MUS 2101—Core Studies II: Music Theory III [FA] (4 cr)  
MUS 2102—Core Studies II: Music Theory IV [FA] (4 cr)  
MUS 3101—Core Studies III: Medieval, Renaissance, and Baroque Music [HIST] (4 cr)  
MUS 3102—Core Studies III: Classical, Romantic, and 20th-Century Music [FA] (4 cr)

MUS 4901—Senior Project and Portfolio (1 cr) Piano proficiency 7 credits in individual performance studies in the applied area, of which a minimum of two semesters must be in the MUS 32XX—Advanced Individual Performance Studies series.

#### **Elective Courses**

*Take 6 or more credits from the following:*

MUS 3051—Piano Pedagogy I [ART/P] (2 cr)  
MUS 3052—Piano Pedagogy II [ART/P] (2 cr)  
MUS 3311—Conducting Techniques (2 cr)  
MUS 3321—Instrumental Conducting and Materials (2 cr)  
MUS 3331—Choral Conducting and Materials (2 cr)  
MUS 3353—Music Arranging and Orchestration (2 cr)  
MUS 3993—Directed Study (1–5 cr)  
MUS 4101—Form and Analysis (4 cr)  
MUS 4102—Counterpoint (4 cr)  
MUS 4103—Seminar: Topics in Music History (4 cr)  
MUS 4110—Seminar: Advanced Music Theory and Analysis (4 cr)  
MUS 3xxx, 4xxx

## Music Minor

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### **Required Courses**

##### **Concert Attendance**

*Four successful completions of MUS 1000*  
MUS 1000—Concert Attendance (0.5 cr)

##### **Individual Performance Studies**

*Applied Music Area*  
4 cr from MUS 12xx, all must be from the same instrument.

##### **Piano Proficiency**

4 cr in MUS 1200 or Mus 1111-1112, 2111-2112 sequence unless it is the main applied instrument area. If so, requirements differ, see Music faculty or discipline website.  
MUS 1101—Core Studies I: Music Theory I [M/SR] (4 cr)  
MUS 1102—Core Studies I: Music Theory II [M/SR] (4 cr)  
MUS 3101—Core Studies III: Medieval, Renaissance, and Baroque Music [HIST] (4 cr)  
MUS 3102—Core Studies III: Classical, Romantic, and 20th-Century Music [FA] (4 cr)

#### **Teacher Preparation Requirements**

Students seeking teaching licensure in instrumental music K–12 or vocal music K-12 should refer to the Education, Secondary (SeEd) section of this catalog.

## Music Course Descriptions

**MUS 1000. Concert Attendance.** (0.5 cr [max 3.5 cr]; S-N only; prereq major or minor; fall, spring, every year)

To be taken by all music majors and minors; involves attending a set number of music performance offerings during the semester, as a participant, audience member, and usher or stage manager.

**MUS 1041. Introduction to Music.** (FA; 4 cr; fall, every year)  
Survey emphasizing development of an intelligent understanding and appreciation of music. For non-music majors.

**MUS 1042. Fundamentals of Music.** (FA; 4 cr; spring, odd years)  
The rudiments of music including note and rhythmic reading, scales, chords, beginning chord progressions, and practical keyboard work in the piano lab.

**MUS 1043. American Jazz Styles.** (FA; 4 cr; fall, spring, offered periodically)  
Development and analysis of the New Orleans dixieland, ragtime, stride, boogie-woogie, Chicago dixieland, swing, bop, cool, funky, progressive, third-stream, free form, and fusion jazz styles. Introductory course to help non-music majors become familiar with and appreciate this art form.

**MUS 1044. Class Piano for the Non-Music Major.** (ART/P; 1 cr; special fee required; fall, spring, every year)

Introduction to piano performance for students with no previous piano training. Students will learn basic keyboard skills including note reading, fingering, and counting. Study beginning piano technique and learn to perform elementary-level solos and ensembles.

**MUS 1045. Class Guitar.** (ART/P; 1 cr; special fee required; fall, spring, every year)

Introduction to guitar performance for students with no previous guitar experience. Students learn basic guitar skills, study beginning guitar technique, and learn to perform music. This class is not for students who have played guitar before.

**MUS 1049. Introduction to American Popular Music.** (HUM; 4 cr; =[MUS 1801]; spring, even years)

Survey of popular musical styles in America from the early 20th century to today.

**MUS 1050. Accompanying.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

Students who accompany private lessons and recitalists may receive credit. Accompanying assignments are made through consultation with the piano faculty.

**MUS 1061. Introduction to World Music.** (IP; 4 cr; fall, every year)

Survey of primarily non-Western music cultures, emphasizing the development of an appreciation for the music and an understanding of its significance in its culture of origin. For non-music majors.

**MUS 1070. Instrumental Chamber Ensemble.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

Performance of instrumental chamber music. Groups are formed according to the interests of students and availability of materials.

**MUS 1080. Jazz Combo.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

Performance of instrumental jazz music with emphasis on improvisation.

**MUS 1081. Jazz Improvisation.** (ART/P; 2 cr; prereq #; spring, offered periodically)

Introduction to the art of jazz improvisation for instrumentalists and vocalists. Topics, including practice techniques, jazz theory, jazz harmony, and improvisational techniques, are discussed through solo analysis, transcriptions, listening assignments, live performances, and instructor demonstration.

**MUS 1090. Vocal Chamber Ensemble.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

Performance of vocal ensemble music especially written for smaller groups.

**MUS 1101. Core Studies I: Music Theory I.** (M/SR; 4 cr; prereq major or minor or #, concurrent enrollment in piano class/lessons until piano proficiency is passed for majors and minors; fall, every year)

First course in a series of four. Scales, modes, and keys; simple and compound meters; basic triads, seventh chords, and harmonic techniques; initial analysis of scores; and introduction to two- and four-part writing. Introduction to sight-singing, rhythmic and melodic dictation, and aural error detection. Must have adequate skills in grand staff music reading at the start of the course.

**MUS 1102. Core Studies I: Music Theory II.** (M/SR; 4 cr; prereq 1101, major or minor or #, concurrent enrollment in piano class/lessons until piano proficiency is passed for majors and minors; spring, every year)

Harmonic structure, progression and tonicization, seventh chords, secondary dominants and sevenths, analysis of scores. Sight-singing with chromatic pitches; melodic, rhythmic, and harmonic dictation.

**MUS 1111. Functional Keyboard for the Music Major I.** (ART/P; 1 cr; prereq coreq 1101, #; special fee required; fall, every year)

Beginning instruction for music majors and minors whose principal performing medium is voice or non-keyboard instrument; skill development in sight reading, technique, harmonization, simple literature.

**MUS 1112. Functional Keyboard for the Music Major II.** (ART/P; 1 cr; prereq 1111, coreq 1102, #; special fee required; spring, every year)

Continued beginning instruction begun in Mus 1111 for music majors and minors whose principal performing medium is voice or non-keyboard instrument; includes sight reading, technique, harmonization, transposition, improvisation, simple literature.

**MUS 1200-1223. Individual Performance Studies.** (ART/P; 1 cr per sem for each [max 8 cr]; prereq #; special fee required; fall, spring, every year)

Private instruction in the following areas is open to all students. It is recommended that music majors fulfill their requirement of 7 credits in successive enrollments in order to maintain continuous emphasis in the major performance area. The 3200 series is intended for music students who have achieved an advanced performance level. A jury examination in the major performance area is required to progress to the advanced performance series. The examination provides an effective check on the music student's progress. All music majors and other students who anticipate applying for the jury exam should enroll under the A-F grading only.

**Note:** Applied music instructors are not expected to make up sessions for absences from scheduled lessons.

**MUS 1200 Piano**

**MUS 1201 Piano Accompanying**

**MUS 1202 Organ**

**MUS 1203 Harpsichord**

**MUS 1204 Voice**

**MUS 1205 Violin**

**MUS 1206 Viola**

**MUS 1207 Cello**

**MUS 1208 Double Bass**

**MUS 1209 Flute**

**MUS 1210 Oboe**

**MUS 1211 Clarinet**

**MUS 1212 Saxophone**

**MUS 1213 Bassoon**

**MUS 1214 Trumpet**

**MUS 1215 French Horn**

**MUS 1216 Trombone**

**MUS 1217 Baritone**

**MUS 1218 Tuba**

**MUS 1219 Percussion**

**MUS 1220 Recorder**

**MUS 1221 Guitar**

**MUS 1222 Electric Bass**

**MUS 1223 Composition**

**MUS 1300. UMM Symphonic Winds.** (ART/P; 1 cr [max 8 cr]; S-N only; special fee required for fall semester; fall, spring, every year)

A select ensemble of wind, brass, percussion, double bass, and piano instrumentation which performs traditional and contemporary literature of the highest quality. A program fee is attached to this course in fall semester only to cover the expenses of the annual off-campus weekend retreat.

**MUS 1301. Chamber Winds.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

A select group that promotes the advancement of wind music of artistic and historical significance through one-on-a-part performances in a directed chamber setting.

**MUS 1310. University Choir.** (ART/P; 1 cr [max 8 cr]; S-N only; fall, spring, every year)

Preparation of choral works for at least one public concert each semester and other special events. Emphasis on basic choral singing techniques.

**MUS 1320. Concert Choir.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

Preparation of choral works from all major periods of music literature with emphasis on concert performance. Several public concerts and appearances scheduled each semester in addition to a spring concert tour.

**MUS 1321. Chamber Singers.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

A select ensemble of vocalists performing repertoire in a variety of styles. Several public concerts and appearances scheduled each semester.

**MUS 1330. Jazz Ensemble.** (ART/P; 1 cr [max 8 cr]; S-N only; fall, spring, every year)

Rehearsals and concerts cover the literature for this medium.

**MUS 1331. Brass Ensemble.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)

A small directed ensemble for brass (and occasionally percussion) players, performing standard brass literature in various styles and from all historical periods.

**MUS 1340. Orchestra.** (ART/P; 1 cr [max 8 cr]; S-N only; fall, spring, every year)

The study and preparation of standard orchestral works for performance at several public concerts and appearances each semester in addition to a concert tour. The study of basic orchestral procedure.

**MUS 1360. Concert Choir Tour.** (0.5 cr [max 2 cr]; S-N only; prereq coreq 1320, #; a program fee is attached to this course to cover the expenses of the concert tour; spring, every year)

Participation in the spring concert tours undertaken by the UMM Concert Choir.

**MUS 1370. Chamber Orchestra.** (ART/P; 1 cr [max 8 cr]; S-N only; fall, spring, every year)

The study and preparation of standard string orchestral works for performance at several public concerts and appearances each semester. Wind and percussion players need special permission to enroll. The study of basic orchestral procedure.

**MUS 1401. English, Italian, German, and French Diction for Singers.** (ART/P; 1 cr; A-F or Audit; spring, even years)

The sounds and symbols of the International Phonetic Alphabet, rules for correct English, Italian, German, and French lyric diction. Transactions of German Lieder, French Melodie, Italian Arias, and English Songs into International Phonetic Alphabet. German, French, Italian, and English songs performed in class for critique.

**MUS 1411. Vocal Performance Workshop.** (ART/P; 1 cr; prereq #; spring, offered periodically)

Practical introduction to vocal performance. Students become familiar with a number of operas and musical comedies and perform selections emphasizing ensemble work.

**MUS 1801. Introduction to American Popular Music.** (IC; 4 cr; =[MUS 1049]; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Survey of popular musical styles in America from the early 20th century to today. An emphasis on classroom discussion and activities, and written assignments designed to encourage critical analysis of American popular music and its social contexts.

**MUS 2045. Intermediate Class Guitar.** (ART/P; 1 cr; prereq 1045 or #; special fee required; fall, spring, every year)

Focusing on the middle ground where popular and classical guitar meet, reading skills, bar and "color" chords, and advanced right hand technique are applied to both popular and classical music. Students write and perform original songs, learn personal favorites, and advance through carefully selected classical etudes.

**MUS 2101. Core Studies II: Music Theory III.** (FA; 4 cr; prereq 1102, major or minor or #, concurrent enrollment in piano class/lessons until piano proficiency is passed for majors and minors; fall, every year) Modulatory techniques; chromatic harmony of the Classical and Romantic Periods; borrowed chords, Neapolitan and augmented sixths; ninth, eleventh, and thirteenth chords; altered dominants and chromatic mediants; harmonic and formal analysis of scores including binary, ternary, variation, sonata, and rondo forms.

**MUS 2102. Core Studies II: Music Theory IV.** (FA; 4 cr; prereq 2101, major or minor or #, concurrent enrollment in piano class/lessons until piano proficiency is passed for majors and minors; spring, every year) Model, pentatonic, whole-tone, and octatonic collections; analysis of scores including nonfunctional harmony; pitch class set, twelve-tone and other 20th- and 21st-century techniques.

**MUS 2111. Functional Keyboard for the Music Major III.** (ART/P; 1 cr; prereq 1112, coreq 2101, #; special fee required; fall, every year) Elementary to early intermediate instruction for music majors and minors whose principal performing medium is voice or non-keyboard instrument; continued skill development begun in MUS 1112; introduction of easy solo and ensemble literature.

**MUS 2112. Functional Keyboard for the Music Major IV.** (ART/P; 1 cr; prereq 2111, coreq 2102, #; special fee required; spring, every year) Intermediate instruction for music majors and minors whose principal performing medium is voice or non-keyboard instrument; continued skill development begun in MUS 2111; introduction of intermediate solo and ensemble literature.

**MUS 2301. Instrumental Techniques—Woodwind.** (1 cr; prereq major or minor or #; fall, offered periodically)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the woodwind instruments.

**MUS 2302. Instrumental Techniques—Brass.** (1 cr; prereq major or minor or #; spring, offered periodically)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the brass instruments.

**MUS 2303. Instrumental Techniques—Strings.** (1 cr; prereq major or minor or #; fall, offered periodically)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the string instruments.

**MUS 2304. Vocal Techniques.** (1 cr; prereq major or minor or #; spring, odd years)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the voice.

**MUS 2305. Instrumental Techniques—Percussion.** (1 cr; prereq major or minor or #; spring, offered periodically)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the percussion instruments.

**MUS 3051. Piano Pedagogy I.** (ART/P; 2 cr; prereq 1200 or #; fall, even years)

This course is a study, demonstration, and discussion about the various elements of piano teaching methods, techniques, and materials for elementary and early intermediate levels. This includes analysis of various piano courses and piano literature, discussion of technical regimes, ideas for private and group lessons, and planning for the practical business aspect of teaching. Recommended for piano majors.

**MUS 3052. Piano Pedagogy II.** (ART/P; 2 cr; prereq 1200 or #; fall, odd years)

This course covers much intermediate literature from each of the four major periods of music with practical ideas to put into immediate use by current teachers. Piano literature to motivate and retain students as well as the study of performance practices as they relate to each musical style are emphasized.

**MUS 3061. Guitar Pedagogy.** (ART/P; 2 cr; prereq 1221 or #; fall, spring, every year)

Discussions and readings on guitar pedagogy, private and group lessons, instructing young students, practice methods and business issues associated with self-employment in teaching music. Instruction of beginners in a one-on-one situation and classroom presentation of lessons.

**MUS 3101. Core Studies III: Medieval, Renaissance, and Baroque Music.** (HIST; 4 cr; prereq 1102, major or minor or #; fall, odd years)

Historical development of Western music and representative literature of the various periods and styles.

**MUS 3102. Core Studies III: Classical, Romantic, and 20th-Century Music.** (FA; 4 cr; prereq 1102, major or minor or #; spring, odd years)

Historical development of Western music and representative literature of the various periods and styles.

**MUS 3200-3223. Advanced Individual Performance Studies.** (ART/P; 1 cr per sem for each [max 8 cr]; prereq #; fall, spring, every year)

Private instruction in the major performance area for music students at an advanced level of performance. A jury examination is required for advanced performance study. For listing of performance areas, see MUS 1200 above. Note: Applied music instructors are not expected to make up sessions for absences from scheduled lessons.

**MUS 3311. Conducting Techniques.** (2 cr; prereq major or minor or #; fall, every year)

Development of basic ensemble conducting skills.

**MUS 3321. Instrumental Conducting and Materials.** (2 cr; prereq 3311, major or minor or #; spring, every year)

Specialization of instrumental conducting and a survey of ensemble materials for various levels of ability and maturity.

**MUS 3331. Choral Conducting and Materials.** (2 cr; prereq 3311, major or minor or #; spring, every year)

Specialization of choral conducting and a survey of ensemble materials for various levels of ability and maturity.

**MUS 3353. Music Arranging and Orchestration.** (2 cr; A-F only; =[MUS 3351, MUS 3352]; prereq 1102 or #; fall, every year)

Exploration of the theoretical process of transcribing and scoring music for different combinations of instruments and voices. Topics include vocal ranges and instrumental transposition. Arranging projects are assigned throughout the semester to develop practical skills.

**MUS 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**MUS 4101. Form and Analysis.** (4 cr; prereq 2102, major or minor or #; fall, even years)  
Analysis of musical forms, including harmonic and melodic structure of the phrase, the binary principle, the ternary principle, sonata allegro, rondo, and later alterations of the forms.

**MUS 4102. Counterpoint.** (4 cr; prereq 2102 or #; fall, odd years)  
Contrapuntal techniques of the 18th century with references to earlier 16th century species counterpoint.

**MUS 4103. Seminar: Topics in Music History.** (4 cr; prereq 1102, major or minor or #; spring, odd years)  
A small, discussion-oriented seminar emphasizing a multi-faceted approach to an advanced musical topic. Topics vary each semester the course is offered and are determined by the instructor. Student work culminates in a semester-long research project and presentation.

**MUS 4110. Seminar: Advanced Music Theory and Analysis.** (4 cr [max 8 cr]; prereq 2102, major or minor or #; fall, odd years)  
A discussion-oriented seminar on an advanced aspect or aspects of music theory and analysis. Repertoire and techniques vary each semester the course is offered and are determined by the instructor. Student work culminates in a semester-long research project and presentation.

**MUS 4901. Senior Project and Portfolio.** (1 cr; S-N only; prereq major, #; fall, spring, every year)  
Culminating activity that allows a graduating student to demonstrate competence as a musician. Projects may take the form of a solo recital, lecture-recital, research paper, chamber music recital, or other major study. Project should be determined in the student's junior year and approved by the music faculty. Majors taking Mus 3200 through 3223 normally satisfy this requirement with a senior recital.

## Philosophy (PHIL)

### *Division of the Humanities*

The philosophy program provides an environment in which students receive rich, well-rounded instruction in philosophy whose pursuit is essential to a liberal arts education.

**Objectives**—UMM's Philosophy curriculum offers coursework in all major subfields of philosophy: the history of philosophy, metaphysics and logic, epistemology, and values. As a field of study, philosophy is at the core of a liberal arts education, as its skills encourage independent thought and interdisciplinary, integrated inquiry. Specifically, UMM's Philosophy program offers students the opportunity to:

- \* explore philosophy's fundamental questions and proposed answers;
- \* cultivate their own philosophical powers, which include creativity, sensitivity, intellectual courage, open mindedness and critical mindedness, logical rigor, and analytical precision;
- \* join the great conversation by contributing their own considered insights;
- \* hone their ability to speak and write effectively.

### Philosophy Major

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

PHIL 1101—Introduction to Philosophy [HUM] (4 cr)  
or PHIL 1801—THINK: An Introduction to Philosophy [IC] (4 cr)  
PHIL 2101—Introduction to Symbolic Logic [M/SR] (4 cr)  
PHIL 2111—Introductory Ethics [HUM] (4 cr)

#### Core Courses

*Take 12 or more credits from the following:*  
PHIL 3101—Metaphysics [HUM] (4 cr)  
PHIL 3121—Political Philosophy [SS] (4 cr)

PHIL 3141—The Theory of Knowledge [HUM] (4 cr)  
PHIL 3151—History of Ancient Philosophy [HIST] (4 cr)  
PHIL 3171—History of Modern Philosophy [HIST] (4 cr)  
PHIL 4111—Ethical Theory [HUM] (4 cr)

#### Advanced Seminar

*One 49xx course from the following:*

PHIL 4902—Advanced Seminar in History of Philosophy [HUM] (4 cr)  
or PHIL 4903—Advanced Seminar in Metaphysics and Epistemology [HUM] (4 cr)  
or PHIL 4904—Advanced Seminar in Value Theory [HUM] (4 cr)

#### Elective Courses

*Take 8 or more credits from the following:*

PHIL 2112—Professional Ethics [E/CR] (4 cr)  
PHIL 2113—International and Biomedical Ethics [HUM] (4 cr)  
PHIL 2114—Environmental Ethics [ENVT] (4 cr)  
PHIL 2121—Philosophy of Religion [HUM] (4 cr)  
PHIL 2141—Analytic Feminism [HUM] (4 cr)  
PHIL 2151—Philosophy of Mind [HUM] (4 cr)  
PHIL 2161—Philosophy and Film [HUM] (4 cr)  
PHIL 2162—Ethics of Love and Sex [HUM] (4 cr)  
PHIL 3112—Free Will [HUM] (4 cr)  
PHIL 3131—Philosophy of Law [SS] (4 cr)  
PHIL 3162—The Scottish Enlightenment: Markets, Minds, and Morals [IP] (4 cr)  
PHIL 4000—History of Philosophy Seminar [HIST] (4 cr)  
PHIL 4002—Existentialism [HIST] (4 cr)  
PHIL 4100—Moral Issues and Theories [HUM] (4 cr)  
PHIL 4121—Philosophy of Language [HUM] (4 cr)  
PHIL 4130—Contemporary Issues in Philosophy [HUM] (4 cr)  
PHIL 4131—Personal Identity, Proper Names, and Essences [HUM] (4 cr)

#### Additional 4xxx Elective

One additional 4xxx course exclusive of those used to meet other major requirements or electives.

*Take 4 or more credits from the following:*

PHIL 4xxx

### Philosophy Minor

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

*Take 8 or more credits from the following:*

PHIL 2101—Introduction to Symbolic Logic [M/SR] (4 cr)  
PHIL 2111—Introductory Ethics [HUM] (4 cr)  
PHIL 1101—Introduction to Philosophy [HUM] (4 cr)  
or PHIL 1801—THINK: An Introduction to Philosophy [IC] (4 cr)

#### Core Courses

*Take 8 or more credits from the following:*

PHIL 3101—Metaphysics [HUM] (4 cr)  
PHIL 3121—Political Philosophy [SS] (4 cr)  
PHIL 3141—The Theory of Knowledge [HUM] (4 cr)  
PHIL 3151—History of Ancient Philosophy [HIST] (4 cr)  
PHIL 3171—History of Modern Philosophy [HIST] (4 cr)  
PHIL 4111—Ethical Theory [HUM] (4 cr)

#### Elective Courses

*Take 8 or more credits from the following:*

PHIL 2112—Professional Ethics [E/CR] (4 cr)  
PHIL 2113—International and Biomedical Ethics [HUM] (4 cr)  
PHIL 2114—Environmental Ethics [ENVT] (4 cr)  
PHIL 2121—Philosophy of Religion [HUM] (4 cr)  
PHIL 2141—Analytic Feminism [HUM] (4 cr)  
PHIL 2151—Philosophy of Mind [HUM] (4 cr)  
PHIL 2161—Philosophy and Film [HUM] (4 cr)  
PHIL 2162—Ethics of Love and Sex [HUM] (4 cr)  
PHIL 3112—Free Will [HUM] (4 cr)  
PHIL 3131—Philosophy of Law [SS] (4 cr)

PHIL 3162—The Scottish Enlightenment: Markets, Minds, and Morals [IP] (4 cr)

PHIL 4000—History of Philosophy Seminar [HIST] (4 cr)

PHIL 4002—Existentialism [HIST] (4 cr)

PHIL 4100—Moral Issues and Theories [HUM] (4 cr)

PHIL 4121—Philosophy of Language [HUM] (4 cr)

PHIL 4130—Contemporary Issues in Philosophy [HUM] (4 cr)

PHIL 4131—Personal Identity, Proper Names, and Essences [HUM] (4 cr)

## Philosophy Course Descriptions

**PHIL 1004. Introduction to Western Philosophy.** (1 cr; fall, spring, every year)

What is the good life for human beings? What happens after we die? What is the relation between our minds and bodies? Does God exist? In this course, we will examine classic works in philosophy that address these big questions. Authors include: Plato, Aristotle, Epictetus, and Lucretius.

**PHIL 1101. Introduction to Philosophy.** (HUM; 4 cr; =[PHIL 1801]; fall, spring, offered periodically)

An introduction to fundamental philosophical problems in areas such as metaphysics (what exists?), epistemology (what can we know? and how can we know it?), and ethics (what actions are moral and immoral? and what is the good life?), with an emphasis on developing the reading, writing, and analytical skills required for philosophical investigation.

**PHIL 1801. THINK: An Introduction to Philosophy.** (IC; 4 cr; =[PHIL 1101]; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

How should we live our lives? What happens after death? What is the relationship between the mind and body? Does God exist? Why do bad things happen to good people? Examine classical works in philosophy that address these big questions about human nature and its place in the universe. Authors include: Plato, Aristotle, Epictetus, Lucretius, Sextus Empiricus, Descartes, and Hume. Work on the development of philosophical writing, reading, and speaking skills.

**PHIL 1802. Philosophy and Pop Culture.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

An introduction to traditional issues in philosophy through the lens of characters presented in various pop cultural media.

**PHIL 1803. How To Think About Weird Things.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

A course designed to build basic critical thinking skills. Answer questions like: What makes a method of inquiry rational? What, if anything, distinguishes "scientific reasoning" from other sorts of reasoning? More generally, what distinguishes good from bad reasoning? What is truth—is it relative?

**PHIL 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PHIL 2101. Introduction to Symbolic Logic.** (M/SR; 4 cr; fall, every year)

An introduction to formal or deductive logic, including basic concepts of logical argumentation; Aristotelian logic; and symbolic translations, truth tables, and theory of deduction. Samples from political speeches, philosophical essays as well as original LSAT questions are analyzed.

**PHIL 2111. Introductory Ethics.** (HUM; 4 cr; spring, every year)

An introduction to philosophical accounts of what makes right acts right and wrong acts wrong, issues involving the concept of goodness, and arguments or debates about moral responsibility.

**PHIL 2112. Professional Ethics.** (E/CR; 4 cr; fall, every year)

A critical examination of moral issues that arise in a person's professional life. Possible topics include affirmative action, autonomy in the workplace, ethical issues in advertising, corporate responsibility, coercive wage offers, distributive justice, and sexual harassment. Issues concerning race, gender, and women are included in selected modules.

**PHIL 2113. International and Biomedical Ethics.** (HUM; 4 cr; spring, offered periodically)

A general survey of topics in international and biomedical ethics. Topics may include: nuclear deterrence, humanitarian intervention, just war theory, famine relief, global justice, abortion, euthanasia, doctor-patient

relationships, clinical trials, animal experimentation, and genetic engineering.

**PHIL 2114. Environmental Ethics.** (ENVT; 4 cr; spring, odd years)

Survey of fundamental theoretical debates in environmental ethics. General moral approaches are canvassed, as are the major positions in environmental ethics: anthropocentrism, sentientism, biocentric individualism, holism. Specific topics include: speciesism, the environmentalism-animal liberation debate, and the predation problem.

**PHIL 2121. Philosophy of Religion.** (HUM; 4 cr; spring, offered periodically)

A selection of main philosophical issues concerning religion such as the notion of a divinity, the attempts to prove or refute the existence of a divine being, the relationship between faith and reason, the link between religion and morality, the knowledge of a divinity.

**PHIL 2141. Analytic Feminism.** (HUM; 4 cr; spring, offered periodically) Applies an analytical approach to issues discussed in feminist writings. A mixture of lecture and discussion. Requirements include essay exams, papers, attendance, service-learning projects with related reflective journals, and class participation.

**PHIL 2151. Philosophy of Mind.** (HUM; 4 cr; fall, spring, offered periodically)

An introduction to several problems in the philosophy of mind, such as the mind/body problem, consciousness, and psychological explanation.

**PHIL 2161. Philosophy and Film.** (HUM; 4 cr; spring, every year) Addresses some traditional aesthetic questions about the status of film as well as examining film to be a form of philosophy. Also, the role of film as social commentary is discussed.

**PHIL 2162. Ethics of Love and Sex.** (HUM; 4 cr; summer, offered periodically)

Survey of fundamental theoretical debates about the ethics of love and sex. Topics include: competing accounts of erotic love, the moral status of various sexual and romantic orientations, pornography, consensual incest, prostitution and sex tourism, BDSM/kink, and mediated sex (sex tapes, underage sexting, and tell-all memoirs).

**PHIL 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PHIL 3101. Metaphysics.** (HUM; 4 cr; prereq 1101 or 2101 or 2111 or #; spring, odd years)

Explores fundamental metaphysical issues such as the nature of reality, the notion of personal identity, the relationship between language, thought, minds, and the world. Philosophical works of both classic and contemporary philosophers such as Plato, Aristotle, Quine, Putnam, and Kripke are discussed.

**PHIL 3112. Free Will.** (HUM; 4 cr; prereq 1101 or 2101 or 2111 or #; spring, offered periodically)

Explores ancient and contemporary debates surrounding the nature of free will, its plausibility given prevailing theories of physics and mind, and its value. Possible topics include the relevance of free will to autonomy, moral responsibility, and living meaningfully.

**PHIL 3121. Political Philosophy.** (SS; 4 cr; prereq 1101 or 2101 or 2111 or #; fall, even years)

Explores fundamental issues in political philosophy (e.g., political authority; distributive justice; nature, origin, and justification of the state; natural and civil rights) by, among other things, an examination of the works of philosophers such as Plato, Hobbes, Mill, and Rawls.

**PHIL 3131. Philosophy of Law.** (SS; 4 cr; spring, odd years)

Critical examination of theoretical and practical normative issues in the philosophy of law, especially questions regarding the justification of punishment.

**PHIL 3141. The Theory of Knowledge.** (HUM; 4 cr; prereq 1101 or 2101 or 2111 or #; fall, even years)

Explores historical and contemporary views on the limits, justification, and nature of human knowledge. Topics include experiential versus a priori knowledge, the nature of belief, skepticism, and different theories of justification.

**PHIL 3151. History of Ancient Philosophy.** (HIST; 4 cr; prereq 1101 or 2101 or 2111 or #; fall, even years)

Explores the views of philosophers such as Plato, Aristotle, Epicurus, and the Stoics. Possible topics include ancient views on the nature and possibility of knowledge, the relationship of the soul to the body, and what the good life is for a human being.

**PHIL 3162. The Scottish Enlightenment: Markets, Minds, and Morals.** (IP; 4 cr; =[HIST 3162]; prereq %; summer, offered periodically)  
Same as Hist 3162. Study of the philosophy and history of the Scottish Enlightenment. Focus on its original setting through analysis and discussion of primary texts and scholarly interpretations, guest lectures, and small-group discussions with recognized experts in the study of the Scottish Enlightenment. Includes visits to historically significant cities and sites.

**PHIL 3171. History of Modern Philosophy.** (HIST; 4 cr; prereq 1101 or 2101 or 2111 or #; spring, odd years)  
Explores views of philosophers such as Descartes, Leibniz, Berkeley, Hume, and Kant. Possible topics include the relationship of the mind to the body, and whether and how it is possible to have knowledge of the external world.

**PHIL 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PHIL 4000. History of Philosophy Seminar.** (HIST; 4 cr [max 8 cr]; prereq 1101 or 2101 or 2111 or #; fall, every year)  
Intensive investigation of a particular philosophical problem, area, or work of a philosopher. Topics vary.

**PHIL 4002. Existentialism.** (HIST; 4 cr; prereq any 1xxx or 2xxx or #; fall, spring, offered periodically)  
Examination of some prominent thinkers often classified as "existentialists": Kierkegaard, Dostoevsky, Nietzsche, Sartre, and Camus. Topics include what human freedom is, what makes a life authentic (or inauthentic), what role passion and choice should play in acquiring our beliefs and values, and what difference (if any) God's existence or non-existence makes on the significance of our lives.

**PHIL 4100. Moral Issues and Theories.** (HUM; 4 cr [max 8 cr]; prereq 2111 or #; fall, even years)  
Intensive investigation of a particular problem, area, issue, or theory in moral philosophy. Possible topics include moral responsibility, autonomy, weakness of will, and self–deception. Topics vary.

**PHIL 4111. Ethical Theory.** (HUM; 4 cr; prereq 2111 or #; spring, odd years)  
This course in metaethics focuses on the nature of moral obligation. Topics include: Can moral obligations change with the passage of time? Are genuine moral dilemmas possible? Does "ought" imply "can"? Is moral obligation overriding? Is there a genuine distinction between "subjective" and "objective" moral obligation?

**PHIL 4121. Philosophy of Language.** (HUM; 4 cr; prereq 2101 or #; spring, even years)  
Traditional and contemporary discussions of philosophical problems such as the nature of language, its relationships to the world, to human thought, and to truth; the nature of logical reasoning; metalogical problems. Readings from philosophers such as Frege, Russell, Quine, Putnam, Goodman, Wittgenstein, and Kripke.

**PHIL 4130. Contemporary Issues in Philosophy.** (HUM; 4 cr [max 8 cr]; prereq 1101 or 2101 or 2111 or #; fall, odd years)  
Exposure to, and critical examination of, philosophical issues of special contemporary interest. Topics may include the nature of analytic philosophy and its relationship to other philosophical traditions such as continental or feminist philosophy, the debate on realism and anti-realism, the notion of objectivity.

**PHIL 4131. Personal Identity, Proper Names, and Essences.** (HUM; 4 cr; prereq 1101 or 2101 or 2111 or #; fall, spring, offered periodically)  
A seminar primarily devoted to the discussion of readings, i.e., Naming and Necessity by Saul Kripke and Reasons and Persons by Derek Parfit. Questions such as: How do proper names function? Are there essential features of persons or objects? What makes each of us the same particular individual over time?

**PHIL 4901. Senior Philosophical Defense.** (2 cr; A-F only; prereq phil major; fall, spring, every year)  
Writing and defending a senior philosophical thesis is the culminating experience for UMM philosophy majors. Majors develop a piece of their philosophical writing, producing multiple drafts in response to comments from a variety of philosophical viewpoints, and then orally defend their thesis.

**PHIL 4902. Advanced Seminar in History of Philosophy.** (HUM; 4 cr; A-F only; prereq 1101 or 2101 or 2111, sr status, #; spring, offered periodically)  
Advanced seminar on selected topics in the History of Philosophy. Students read and discuss primary source material on a topic of common interest. Additionally, each student investigates a related topic in greater depth, writes a paper, and gives a public presentation.

**PHIL 4903. Advanced Seminar in Metaphysics and Epistemology.** (HUM; 4 cr; A-F only; prereq 1101 or 2101 or 2111, sr status, #; spring, offered periodically)  
Advanced seminar on selected topics in the Metaphysics and Epistemology. Students read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth, writes a paper, and gives a public presentation.

**PHIL 4904. Advanced Seminar in Value Theory.** (HUM; 4 cr; A-F only; prereq 1101 or 2101 or 2111, sr status, #; spring, offered periodically)  
Advanced seminar on selected topics in Value Theory. Students read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth, writes a paper, and gives a public presentation.

**PHIL 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Physical Education and Athletics

(See Sport Management Major and Sport Studies and Athletics.)

## Physics (PHYS)

### Division of Science and Mathematics

**Objectives**—The physics program is designed to help students understand the concepts of classical and modern physics while also developing their ability to solve quantitative problems in these areas. It provides the opportunity for students to acquire the skills necessary to perform experimental work. The program develops students' ability to communicate, in form and content, both orally and in writing, the results of scientific work.

The physics program offers a background suitable for students planning to pursue graduate study or careers in industry, research, or teaching. It also provides a solid foundation for any career requiring analytical reasoning.

## Physics Major

Courses may not be taken S-N. A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of F are included in GPA calculation until they are replaced. No grades below C–are allowed.

### Required Courses

MATH 1101—Calculus I [M/SR] (5 cr)  
MATH 1102—Calculus II [M/SR] (5 cr)  
MATH 2101—Calculus III [M/SR] (4 cr)  
MATH 2401—Differential Equations [M/SR] (4 cr)  
PHYS 1101—General Physics I [SCI-L] (5 cr)  
PHYS 1102—General Physics II [SCI-L] (5 cr)  
PHYS 2101—Modern Physics [SCI-L] (4 cr)  
PHYS 3101—Classical Mechanics [SCI] (4 cr)  
PHYS 4101—Electromagnetism (4 cr)  
PHYS 4201—Quantum Mechanics (4 cr)  
PHYS 4901—Senior Thesis I (1 cr)  
PHYS 4902—Senior Thesis II (1 cr)

### Elective Courses

Take 12 or more credits from the following:

#### Group 1 Electives

Take 6 or more credits from the following:

PHYS 3003—Computer Modeling of Materials [SCI] (2 cr)  
PHYS 3151—Solid State Physics (2 cr)  
PHYS 3152—Particle and Nuclear Physics (2 cr)  
PHYS 3153—Cosmology (2 cr)  
PHYS 3401—Experimental Physics [SCI-L] (4 cr)  
PHYS 3501—Statistical Physics [SCI] (4 cr)



**Group 2 Electives**

Take 0 or more credits from the following:

- PHYS 2201—Circuits and Electronic Devices [SCI-L] (4 cr)  
 PHYS 2301—Atmospheric Physics [ENVT] (4 cr)  
 PHYS 2401—Optics [SCI-L] (4 cr)  
 PHYS 3993—Directed Study (1.0–5 cr)  
 PHYS 4993—Directed Study (1.0–5 cr)

**Physics Minor**

Courses may not be taken S-N. The GPA in these courses must be at least 2.00. Courses with a grade lower than C—may not be used to meet the minor requirements.

**Minor Requirements**

- PHYS 1101—General Physics I [SCI-L] (5 cr)  
 PHYS 1102—General Physics II [SCI-L] (5 cr)  
 PHYS 2101—Modern Physics [SCI-L] (4 cr)  
 MATH 1101—Calculus I [M/SR] (5 cr)  
 MATH 1102—Calculus II [M/SR] (5 cr)  
 MATH 2101—Calculus III [M/SR] (4 cr)

**Elective Courses**

Take 4 or more credits from the following:

- PHYS 2201—Circuits and Electronic Devices [SCI-L] (4 cr)  
 PHYS 2301—Atmospheric Physics [ENVT] (4 cr)  
 PHYS 2401—Optics [SCI-L] (4 cr)  
 PHYS 2993—Directed Study (1.0–5 cr)  
 PHYS 3101—Classical Mechanics [SCI] (4 cr)  
 PHYS 3401—Experimental Physics [SCI-L] (4 cr)  
 PHYS 3501—Statistical Physics [SCI] (4 cr)  
 PHYS 3993—Directed Study (1.0–5 cr)  
 PHYS 4101—Electromagnetism (4 cr)  
 PHYS 4201—Quantum Mechanics (4 cr)  
 PHYS 4993—Directed Study (1.0–5 cr)  
 PHYS 3151—Solid State Physics (2 cr)  
 PHYS 3152—Particle and Nuclear Physics (2 cr)  
 PHYS 3153—Cosmology (2 cr)

**Teacher Preparation Requirements**

Students seeking teaching licensure in physics 9–12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Physics Course Descriptions**

**PHYS 1005. Journal Club.** (1 cr [max 4 cr]; S-N only; fall, every year)

Students learn about a wide variety of current topics in physics by reading and discussing recent journal articles.

**PHYS 1052. The Solar System.** (SCI-L; 5 cr; no cr for students who have received cr for Phys 1051; fall, every year)

History of astronomy; motions of celestial objects; gravity and electromagnetic radiation; the Earth and Moon; the planets and their moons; meteors and asteroids; the Sun; telescopes and other astronomical instruments. Stars and constellations of the fall sky. Night viewing sessions required. (4 hrs lect, 2 hrs lab)

**PHYS 1053. Introduction to Stars, Galaxies, and Cosmology.** (SCI; 4 cr; spring, every year)

Gravity and electromagnetic radiation; nuclear physics; stellar properties; stellar evolution; galaxies; quasars; and cosmology. Stars and constellations of the winter sky. Night viewing sessions required. (4 hrs lect)

**PHYS 1063. Physics of Weather.** (ENVT; 4 cr; fall, even years)

Structure and dynamics of the atmosphere, global energy balance, various atmospheric phenomena from the global scale to the local scale including global wind systems, cyclones, fronts and air masses, thunderstorms, tornadoes, past and present climate, weather forecasting, problems concerning the interaction between civilization and the atmosphere. Some observation and field work required.

**PHYS 1091. Principles of Physics I.** (SCI-L; 5 cr; prereq high school higher algebra; fall, every year)

Introduction to physics without the use of calculus. Vectors, kinematics, Newton's laws of motion, work and energy, momentum, torque, fluids, thermal physics, laws of thermodynamics, oscillations and waves. (4 hrs lect, 2 hrs lab)

**PHYS 1092. Principles of Physics II.** (SCI-L; 5 cr; prereq 1091; spring, every year)

Coulomb's law, electric fields, electric potential, capacitance, electric

current, resistance, DC circuits, magnetism, induction, reflection and refraction of light, mirrors and lenses, interference and diffraction, optical instruments, radioactivity (4 hrs lect, 2 hrs lab)

**PHYS 1101. General Physics I.** (SCI-L; 5 cr; prereq Math 1101 or #; spring, every year)

Vectors, kinematics, laws of motion, circular motion, work-energy theorem, conservation principles, rotational motion, gravitation, simple harmonic oscillations, wave phenomena, fluid mechanics, thermal properties of matter, kinetic theory, laws of thermodynamics. (4 hrs lect and rec, 2 hrs lab)

**PHYS 1102. General Physics II.** (SCI-L; 5 cr; prereq 1101, Math 1102 or #; fall, every year)

Coulomb's law, electric field, Gauss's law, electric potential, capacitance, dielectrics, current, resistance, circuits, magnetic field, Ampere's law, inductance, Faraday's law, AC circuits, Maxwell's equations, electromagnetic waves, nature of light, reflection, refraction, optical instruments, interference, diffraction. (4 hrs lect and rec, 2 hrs lab)

**PHYS 1801. Energy Science.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

A scientific and quantitative look at the production and consumption of energy. Examination of the scientific foundations of numerous sources of energy and evaluation of the potential for each to satisfy the world's appetite for energy.

**PHYS 1802. Projects in Physics and Engineering.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Possible projects include high altitude balloon flights, meteor imaging, skylight studies, cosmic ray measurements, determination of wave propagation in granular media, and analysis of radio astronomical observations. Equipment development and computerized data acquisition and analysis included. Research into the engineering and scientific background of the projects required. (1 hr lect, 2 hrs lab)

**PHYS 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PHYS 2101. Modern Physics.** (SCI-L; 4 cr; prereq 1102, Math 2401 or #; spring, every year)

Special relativity, quantum nature of matter and radiation, Bohr-Sommerfeld atom, atomic spectra, uncertainty principle, Schrodinger equation, hydrogen atom, electron spin, Pauli principle, and periodic table. (3 hrs lect, 3 hrs lab)

**PHYS 2201. Circuits and Electronic Devices.** (SCI-L; 4 cr; prereq 1102 or #; spring, even years)

A hands-on practical course in electronics. Analog electronics including AC and DC circuit analysis, passive circuit elements, pn junctions, transistors, and op-amp circuits. Digital electronics including combinational logic, sequential logic, and microprocessors. (3 hrs lect, 3 hrs lab)

**PHYS 2301. Atmospheric Physics.** (ENVT; 4 cr; prereq 1092 or 1102, Math 1102; fall, odd years)

Introduction to atmospheric physics with an emphasis on thermodynamics. Atmospheric thermodynamics including gas laws, phase transitions, laws of thermodynamics, two-component systems, atmospheric stability; radiative transfer including atmospheric optics and remote sensing; some aspects of atmospheric chemistry such as aerosols, chemical cycles, traces gases; cloud microphysics including nucleation and growth; and atmospheric dynamics including equations of motion for fluid flow; applications to weather systems. (4 hrs lect)

**PHYS 2401. Optics.** (SCI-L; 4 cr; prereq 1102; spring, odd years)

Light as a wave phenomenon, electromagnetic nature of light, Huygens' principle, interference, diffraction—Fraunhofer and Fresnel, polarization, dispersion, absorption and scattering. (4 hrs lect, lab TBA)

**PHYS 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PHYS 3003. Computer Modeling of Materials.** (SCI; 2 cr; prereq 1102; fall, even years)

Focus on the description of materials as assemblies of microscopic particles, covering aspects of molecular dynamics simulations in various statistical ensembles. Skills in scientific programming, visualization and parallel programming are developed through a semester-long project in which students develop a series of molecular dynamics modules.

**PHYS 3101. Classical Mechanics.** (SCI; 4 cr; prereq 2101, Math 2101 or #; fall, even years)

Kinematics and dynamics of a particle, oscillations, central-force motion, systems of particles, rigid-body rotations, gravitation, non-inertial coordinate systems, Lagrangian and Hamiltonian formulations, dynamics of rigid bodies. (4 hrs lect)

**PHYS 3151. Solid State Physics.** (2 cr; prereq 2101, Math 2101; fall, odd years)

An introduction to crystal lattices, Bravais lattices, electronic band structure in metals and semi-metals, cohesive energy of solids, phonon structure, magnetic properties.

**PHYS 3152. Particle and Nuclear Physics.** (2 cr; prereq 2101, Math 2101; spring, odd years)

Leptons, baryons, quarks, the weak interaction, the strong interaction, the Standard Model, Feynman diagrams, nuclear stability, the shell model, decay modes, nuclear reactions.

**PHYS 3153. Cosmology.** (2 cr; prereq 2101; spring, odd years)

The geometry of the universe, cosmological models, observational parameters, the age of the universe, dark matter, the cosmic microwave background, nucleosynthesis, inflation, dark energy.

**PHYS 3401. Experimental Physics.** (SCI-L; 4 cr; prereq 2101; fall, even years)

An introduction to modern experimental methods. (3 hrs lect, 3 hrs lab)

**PHYS 3501. Statistical Physics.** (SCI; 4 cr; prereq 2101; spring, even years)

Probability distributions, statistical ensembles, statistical thermodynamics, ideal gases, quantum statistics, kinetic theory of transport phenomena. (4 hrs lect)

**PHYS 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PHYS 4101. Electromagnetism.** (4 cr; prereq 2101, Math 2101 or #; fall, odd years)

Vector calculus, electrostatics, Laplace and Poisson equations, dielectrics, magnetostatics, magnetic properties of matter, electromagnetic induction, Maxwell's equations, electrodynamics, electromagnetic waves. (4 hrs lect)

**PHYS 4201. Quantum Mechanics.** (4 cr; prereq 2101, Math 2101; spring, every year)

Uncertainty principle, Schrodinger equation, commutation relations, momentum space wave functions, Dirac notation, applications to problems in one dimension and the hydrogen atom, angular momentum. (4 hrs lect)

**PHYS 4901. Senior Thesis I.** (1 cr; prereq sr; fall, every year)

Capstone experience in physics. Students work with recent journal articles in physics, practice technical writing, and identify a thesis topic.

**PHYS 4902. Senior Thesis II.** (1 cr; prereq 4901; spring, every year)

Students develop and present their senior theses orally and in writing.

**PHYS 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Political Science (POL)

### *Division of the Social Sciences*

This discipline is in the Division of the Social Sciences.

**Objectives**—Political science is the comprehensive study of the behaviors, organizations, institutions, and philosophical foundations of political life at the individual, state, national, and international settings. The major program is designed to prepare students for lifelong civic engagement and leadership in democratic society, as well as intercultural competence as global citizens. The political science major curriculum stresses the development of strong analytical skills and critical thinking and prepares students for further academic training in political science, law, public administration, and other graduate programs as well as for work in public affairs, business, journalism, interest groups, and a wide range of other careers.

Students who complete the political science major are able to critically analyze and interpret political processes, problems, and challenges; understand, synthesize, and contribute imaginatively to the major research and theoretical debates prevalent in the study of American and comparative politics, international relations, and political thought; present their evidence and arguments in clear, precise language; and participate thoughtfully, knowledgeably, and ethically in civic life.

## Political Science Major

The political science major requires 40 credit hours of political science courses. Of those, 16 are required core courses and 24 are elective courses. The political science discipline strongly recommends that students take advantage of opportunities in internships, field studies, and study abroad.

Students are also strongly encouraged to take advantage of courses in other disciplines such as economics, history, psychology, philosophy, and statistics that will complement and enrich their political science coursework. Symbolic Logic (PHIL 2101) is recommended for pre-law students and statistics (STAT 1601 or 2601) for other political science majors.

No grades below C– are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

*Take 2 or more courses from the following:*

POL 1101—Introduction to Political Theory [E/CR] (4 cr)

POL 1201—American Government and Politics [E/CR] (4 cr)

POL 1202—Law and Society: Introduction to Public Law [SS] (4 cr)

POL 1401—World Politics [IP] (4 cr)

*Take exactly 1 course from the following:*

POL 2001—Political Science Research Methods [SS] (4 cr)

*Take exactly 1 course from the following:*

POL 4205—Seminar in American Politics (3 cr)

POL 4305—Seminar in Political Theory (4 cr)

POL 4405—Seminar in Comparative Politics and International Relations (4 cr)

### Electives

Of the 24 additional credits, majors are required to take at least 4 cr at 2xxx level and at least 12 cr at 3xxx level. No more than 4 elective cr can be at the 1xxx level and are exclusive of any used to complete the required courses.

Directed studies (no more than 8 cr) and field studies/internships (no more than 4 cr) may count toward the 24 credits, but they do not replace the requirement to take at least one course from each area or the requirement for one 4xxx political science course.

Political Science majors must satisfy distribution requirement by taking at least 4 credits in each of the three areas (American Politics, International and Comparative Politics, and Political Theory). Students may take an additional 4xxx course as an elective.

*Take 24 or more credits from the following:*

#### American Politics

*Take 4 or more credits from the following:*

POL 2221—The American Judicial Process [SS] (2 cr)

POL 2222—The U.S. Supreme Court [SS] (2 cr)

POL 2234—Race, Class and Power: Social Movements in U.S. Politics [HDIV] (2 cr)

POL 2235—Race, Class and Power: Interest Groups in U.S. Politics [HDIV] (2 cr)

POL 2261—States: Laboratories of American Democracy [E/CR] (2 cr)

POL 2262—Power and Politics in American Cities and Communities [E/CR] (2 cr)

POL 3201—Legislative Process [SS] (4 cr)

POL 3211—The American Presidency [SS] (4 cr)

POL 3231—Constitutional Law: Civil Liberties and Civil Rights [HDIV] (4 cr)  
 POL 3232—Constitutional Law: Governmental Powers and Constraints [SS] (4 cr)  
 POL 3251—Political Participation and Voting Behavior [SS] (4 cr)  
 POL 3263—Political Psychology [SS] (4 cr)  
 POL 3266—Media and Politics [SS] (4 cr)  
 POL 3272—Making Environmental Public Policy [ENVT] (4 cr)

#### International and Comparative Politics

*Take 4 or more credits from the following:*

POL 2401—U.S. Foreign Policy [IP] (4 cr)  
 POL 2411—The United Nations: Simulated Negotiations [IP] (2 cr)  
 POL 2461—Diplomatic Negotiation [IP] (4 cr)  
 POL 2501—East Asian Society and Politics [SS] (4 cr)  
 POL 3411—International Law [E/CR] (4 cr)  
 POL 3451—Comparative Foreign Policy (4 cr)  
 POL 3453—Russian Politics and Foreign Policy [IP] (4 cr)  
 POL 3475—International Human Rights (4 cr)  
 POL 3504—Latin American Politics (4 cr)  
 POL 3514—Pyramids and Politics on the Nile [IP] (4 cr)

#### Political Theory

*Take 4 or more credits from the following:*

POL 2301—Anarchy and Utopia [HUM] (2 cr)  
 POL 2302—Gandhi and the Politics of Resistance [SS] (2 cr)  
 POL 2354—Political Ethics [E/CR] (4 cr)  
 POL 3302—Islamic Political Thought [SS] (2 cr)  
 POL 3303—Feminist Political Theory [SS] (2 cr)  
 POL 3351—Ancient and Medieval Political Thought [HUM] (4 cr)  
 POL 3352—Modern Political Thought [HUM] (4 cr)  
 POL 3355—Environmental Political Theory [ENVT] (4 cr)

## Political Science Minor

The political science minor requires 20 credit hours of political science courses.

No grades below C—are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

*Take 1 or more courses from the following:*

POL 1101—Introduction to Political Theory [E/CR] (4 cr)  
 POL 1201—American Government and Politics [E/CR] (4 cr)  
 POL 1202—Law and Society: Introduction to Public Law [SS] (4 cr)  
 POL 1401—World Politics [IP] (4 cr)

#### Elective Courses

Courses used to satisfy electives are exclusive of any used to complete the required courses.

Take 12 or more credits from 2xxx, 3xxx or 4xxx. At least 4 credits must be from 3xxx or 4xxx level.

*Take at most 4 credits from the following:*

POL 1101—Introduction to Political Theory [E/CR] (4 cr)  
 POL 1201—American Government and Politics [E/CR] (4 cr)  
 POL 1202—Law and Society: Introduction to Public Law [SS] (4 cr)  
 POL 1401—World Politics [IP] (4 cr) Take at most 8 credits from the following:  
 POL 2001—Political Science Research Methods [SS] (4 cr)  
 POL 2221—The American Judicial Process [SS] (2 cr)  
 POL 2222—The U.S. Supreme Court [SS] (2 cr)  
 POL 2234—Race, Class and Power: Social Movements in U.S. Politics [HDIV] (2 cr)  
 POL 2235—Race, Class and Power: Interest Groups in U.S. Politics [HDIV] (2 cr)  
 POL 2261—States: Laboratories of American Democracy [E/CR] (2 cr)  
 POL 2262—Power and Politics in American Cities and Communities [E/CR] (2 cr)  
 POL 2301—Anarchy and Utopia [HUM] (2 cr)  
 POL 2302—Gandhi and the Politics of Resistance [SS] (2 cr)

POL 2401—U.S. Foreign Policy [IP] (4 cr)  
 POL 2411—The United Nations: Simulated Negotiations [IP] (2 cr)  
 POL 2461—Diplomatic Negotiation [IP] (4 cr)  
 POL 2501—East Asian Society and Politics [SS] (4 cr)

*Take 4 or more credits from the following:*

POL 3201—Legislative Process [SS] (4 cr)  
 POL 3211—The American Presidency [SS] (4 cr)  
 POL 3231—Constitutional Law: Civil Liberties and Civil Rights [HDIV] (4 cr)  
 POL 3232—Constitutional Law: Governmental Powers and Constraints [SS] (4 cr)  
 POL 3251—Political Participation and Voting Behavior [SS] (4 cr)  
 POL 3263—Political Psychology [SS] (4 cr)  
 POL 3266—Media and Politics [SS] (4 cr)  
 POL 3272—Making Environmental Public Policy [ENVT] (4 cr)  
 POL 3302—Islamic Political Thought [SS] (2 cr)  
 POL 3303—Feminist Political Theory [SS] (2 cr)  
 POL 3351—Ancient and Medieval Political Thought [HUM] (4 cr)  
 POL 3352—Modern Political Thought [HUM] (4 cr)  
 POL 2354—Political Ethics [E/CR] (4 cr)  
 POL 3355—Environmental Political Theory [ENVT] (4 cr)  
 POL 3411—International Law [E/CR] (4 cr)  
 POL 3451—Comparative Foreign Policy (4 cr)  
 POL 3453—Russian Politics and Foreign Policy [IP] (4 cr)  
 POL 3475—International Human Rights (4 cr)  
 POL 3504—Latin American Politics (4 cr)  
 POL 3996—Field Study in Political Science (1–16 cr)  
 POL 4305—Seminar in Political Theory (4 cr)  
 POL 4205—Seminar in American Politics (4 cr)  
 POL 4405—Seminar in Comparative Politics and International Relations (4 cr)  
 POL 3xxx

#### Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

## Political Science Course Descriptions

**POL 1101. Introduction to Political Theory.** (E/CR; 4 cr; spring, every year)

An introduction to key political concepts, questions, and ideologies through the writings of major thinkers of Western political theory and examination of contemporary debates about political life.

**POL 1201. American Government and Politics.** (E/CR; 4 cr; fall, spring, every year)

Analysis of principles, organization, procedures, and powers of government in the United States. The federal system, national constitution, civil and political rights, party system; nature, structure, powers, and procedures of legislative, executive, and judicial departments of the national government.

**POL 1202. Law and Society: Introduction to Public Law.** (SS; 4 cr; spring, even years)

Law is a significant part of modern-day society and culture, especially in the United States. Examine the adversarial system of law and the various actors and institutions that influence and shape it in this country. In particular, look at where legal authority comes from and its limits in modern society. Explore the ways in which law acts to restrict and empower individuals and groups in society. This introductory level course is intended as a survey of the concept of public law both for students interested in taking upper-level courses dealing with legal and constitutional questions and for students simply interested in a greater understanding of why and how law matters in 21st-century society. It is taught using lectures mixed with some in-class activities and simulations.

**POL 1401. World Politics.** (IP; 4 cr; fall, every year)

The contemporary international system, including nationalism, international political economy, foreign policy formulation, and global concerns such as the environment and conflict. North/South debate, definitions of power, the new world order, regional vs. global conflicts, and avenues of cooperation.

**POL 1811. War and Terrorism.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

An in-depth look into war and terrorism from 1914 to the present. Why do nations go to war? Why do people resort to terrorism? How do we prevent

war/terrorism and preserve peace? Grapple with these questions and by the end of the term, acquire a rich, sophisticated understanding of war/terrorism and independent, critical thinking skills on international conflicts as a whole.

**POL 1812. Political, Social, and Military Conflict in American Film.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

An initial exploration of how motion pictures portray political, social, and military conflict in different periods of U.S. history. Students examine the images and messages of various kinds of political conflict as projected in American film and connect these portrayals to both the historical and social context of the times and to Hollywood's commercial objectives and elite biases. Specific topics include America's political founding and "civilizing" of the West, the civil rights movement and the struggle for LGBT rights, the politicized justice system, political leadership and corruption, war as heroic and tragic struggle, and dystopian political visions of America's future.

**POL 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**POL 2001. Political Science Research Methods.** (SS; 4 cr; prereq any 1xxx-level UMM Pol course, major or minor or #; fall, every year)  
Students conceive and develop research questions and hypotheses; collect and critically review published research on their topic; analyze empirical evidence using statistical software; and write clearly, forcefully, and logically about their research. Examination of the phil

**POL 2221. The American Judicial Process.** (SS; 2 cr; spring, odd years)

A half-semester course examining the common law system as broadly practiced in the United States, including types of legal recourse, the structures of state and federal judicial systems, how judges are selected, and the various influences on their decisions.

**POL 2222. The U.S. Supreme Court.** (SS; 2 cr; spring, odd years)  
A half-semester course specifically looking at the role of the Supreme Court in U.S. politics with an emphasis on its historical development, how it interacts with the other federal branches, and the decision-making process of the justices on the Court.

**POL 2234. Race, Class and Power: Social Movements in U.S.**

**Politics.** (HDIV; 2 cr; spring, even years)  
Using a case study approach, this half-semester course examines a variety of social movements from across U.S. history. Addresses questions such as why social movements arise, how they succeed or fail, and how the American political system adapts to their influence.

**POL 2235. Race, Class and Power: Interest Groups in U.S. Politics.** (HDIV; 2 cr; spring, even years)

A half-semester course focusing on the growth and importance of interest groups in U.S. politics by looking at different types of interest groups, the tactics they use to try to influence the political system, how successful they are at doing so, and whether this system works for the public good.

**POL 2261. States: Laboratories of American Democracy.** (E/CR; 2 cr; prereq 1201 or #; no credit for students who have received credit for Pol 3261; spring, offered periodically)

Examination of the ways American democracy functions in the states. Analysis of principles, organizations, procedures, and functions of state government in the United States, with particular emphasis on comparing state politics and policy outcomes.

**POL 2262. Power and Politics in American Cities and Communities.** (E/CR; 2 cr; spring, even years)

Explores the nature of political power and institutions in urban, suburban, and rural communities, along with cultural and economic forces. Analyzes political and policy trends in metropolitan regions and rural areas. Includes relevant experiential or service projects in surrounding communities.

**POL 2301. Anarchy and Utopia.** (HUM; 2 cr; fall, offered periodically)  
An analytical survey of anarchist thought and utopian ideals that are used to challenge modern political and social systems. The course draws from scholarly work as well as fiction, films, and mixed media sources.

**POL 2302. Gandhi and the Politics of Resistance.** (SS; 2 cr; fall, offered periodically)

A study of Gandhi's theory and practice of satyagraha and swaraj as forms of nonviolent political resistance and human realization. Places Gandhi within the historical and theoretical context of Indian political thought and colonialism and examines the influence of Gandhi's politics of resistance on international political theory.

**POL 2354. Political Ethics.** (E/CR; 4 cr; no credit for students who have received credit for Pol 3354; fall, offered periodically)

Examination of the strengths, weaknesses, and implications of moral arguments in political decision making. Ethical frameworks drawn from theoretical readings are applied to a range of contemporary U.S. case studies such as state use of violence, interrogation in times of war, governmental secrecy and deceit, official disobedience, health-care access, welfare reform, and environmental regulation and protection.

**POL 2401. U.S. Foreign Policy.** (IP; 4 cr; no credit for students who have received credit for Pol 3401; fall, even years)

American diplomatic history. Institutions and processes of American foreign policy. Major factors to be considered and levels of analysis that allow for the examination and dissection of foreign policy decisions.

**POL 2411. The United Nations: Simulated Negotiations.** (IP; 2 cr; spring, odd years)

Through simulated negotiations and mock conferences, students gain understanding of the complexities involved in international negotiations at the United Nations (UN). The functions and workings of the UN, peacemaking, negotiation skills, and negotiation strategies.

**POL 2461. Diplomatic Negotiation.** (IP; 4 cr; no credit for students who have received credit for Pol 3461; summer, offered periodically)

Discusses negotiation strategies and tactics and examines negotiation skills through a series of simulated negotiations and mock conferences. Diplomacy, negotiation styles, negotiation simulations, and mock conferences.

**POL 2501. East Asian Society and Politics.** (SS; 4 cr; no credit for students who have received credit for Pol 3501; fall, odd years)

Examination of governments, political and leadership changes, and economic developments in China, Japan, and Korea. Modernization, democratization, political pluralism, revolution, authoritarianism, and civil-military relations.

**POL 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**POL 3201. Legislative Process.** (SS; 4 cr; prereq 1201 or #; spring, offered periodically)

The internal organization of Congress and state legislatures, with emphasis on how rules and organizational changes affect the policy process. Topics include the evolution of the modern Congress and state legislatures, the committee system, the role of party leadership, and competing theories of congressional organization and behavior.

**POL 3211. The American Presidency.** (SS; 4 cr; prereq 1201 or #; spring, offered periodically)

Traces the development of the American presidency over time. Major theories of presidential behavior and success are examined, as well as the literature on presidential popularity and executive/ congressional relations.

**POL 3231. Constitutional Law: Civil Liberties and Civil Rights.** (HDIV; 4 cr; =[POL 3233]; prereq 1201 or #; this course is one part of a two-part set of courses covering Constitutional Law; these courses may be taken in any order; fall, even years)

Case-based examination of major Supreme Court opinions primarily dealing with the Bill of Rights and including topics such as freedom of religion, speech and the press, rights of the accused, and struggles over the right to privacy and how to guarantee civil rights protections.

**POL 3232. Constitutional Law: Governmental Powers and Constraints.** (SS; 4 cr; prereq 1201 or #; this course is one part of a two-part set of courses covering Constitutional Law; these courses may be taken in any order; fall, odd years)

Case-based examination of major Supreme Court opinions dealing with separation of powers, checks and balances, and issues of federalism. Specific topics include the importance of due process, the Contract Clause, the power to tax and spend, the Commerce Clause, and the struggle to define national and state powers.

**POL 3251. Political Participation and Voting Behavior.** (SS; 4 cr; prereq 1201 or #; no credit for students who have received credit for Pol 4251; fall, even years)

Examination of factors which influence political behavior such as voting, protesting, attending political rallies, and working in campaigns in the U.S. context. Specific attention is paid to voting demographics, recent elections, change in behavior over time, and the various ways in which citizens are engaged or not with the political system. Included is a strong

practical focus on mid-term or presidential elections occurring at the same time as the course is offered.

**POL 3263. Political Psychology.** (SS; 4 cr; prereq 1201; Psy 1051 or # recommended; spring, odd years)

Examines the intersection of political science and psychology research, particularly on topics such as personality, emotions, and cognition. Explores the various roles of individuals and groups in political decision-making, emphasizing the connections between how we think and learn and how we structure society and make political choices.

**POL 3266. Media and Politics.** (SS; 4 cr; prereq 1201 or #; no credit for students who have received credit for Pol 4266; fall, odd years)

Examination of the relationships between mass media, government, and public in American democracy. Focus on the role of informed citizenry in theories of U.S. democracy, role of media in informing the U.S. citizenry, and the methods by which this occurs or fails to. Specific attention is given to the ways media influences public opinion, the effects of media, such as framing, agenda setting, and priming, and relationship of media, public opinion, and elites in politics.

**POL 3272. Making Environmental Public Policy.** (ENVT; 4 cr; prereq 1101 or 1201 or 1401; spring, even years)

Exploration of the domestic and international politics of environmental and energy policy making. Focus on theoretical frameworks for policy making and political behaviors surrounding development of environmental and energy policies. Includes the applications of political dynamics and principles to specific areas of environmental and energy policy. Emphasis also given to politics of policy implementation.

**POL 3302. Islamic Political Thought.** (SS; 2 cr; prereq 1101 or #; fall, even years)

Examination of classical and contemporary perspectives on Islam and politics that draws from a diverse range of Muslim and non-Muslim political thinkers and scholars. Particular attention given to the global discourse on Islam and democracy.

**POL 3303. Feminist Political Theory.** (SS; 2 cr; prereq 1101 or #; fall, offered periodically)

Examination of various ways of understanding gender through study of diverging perspectives within feminist political theory in conjunction with critical analysis of the relationships of feminist theory to political action.

**POL 3351. Ancient and Medieval Political Thought.** (HUM; 4 cr; prereq 1101 or #; spring, odd years)

A survey of Western social and political thought from 5th century BCE through the 15th century.

**POL 3352. Modern Political Thought.** (HUM; 4 cr; prereq 1101 or #; spring, even years)

A survey of Western social and political thought from the 16th through the 19th centuries.

**POL 3355. Environmental Political Theory.** (ENVT; 4 cr; fall, odd years)

An examination of political understandings of the relationship between humans and the natural environment. Topics include Western and non-Western perspectives on the natural environment, technological optimism and survivalism, the tragedy of the commons, environmental direct action movements, the environmental justice movement, and theories of green democracy and citizenship. Readings cover a variety of political perspectives and ideologies including neoconservatism, libertarianism, ecoanarchism, ecosocialism, ecofeminism, social ecology, deep ecology, and postmodernism.

**POL 3411. International Law.** (E/CR; 4 cr; prereq 1401 or #; spring, even years)

Relations of international law to individuals, states, the international community, jurisdictional problems, survey of principles developed by diplomatic agents and consuls, treaties, arbitration, treatment of aliens, pacific settlement. War, military occupation, war crimes, neutrality.

**POL 3451. Comparative Foreign Policy.** (4 cr; prereq 1401 or #; no credit for students who have received credit for Pol 4451; spring, odd years)

Comparative examination of foreign policies of the United States, China, and Russia. Topics include Sino-American relations, Sino-Russia relations, China's rise, Russia's resurgence, global war on terrorism, and nuclear proliferation.

**POL 3453. Russian Politics and Foreign Policy.** (IP; 4 cr; prereq 1401 or #; spring, offered periodically)

Domestic and foreign policies of Russia and the former Soviet Union from the Bolshevik Revolution to the present. Nature of the Soviet empire, Russian Federalism, democratic and market reforms, and Russian foreign relations.

**POL 3475. International Human Rights.** (4 cr; prereq 1401 or #; spring, odd years)

Explores the historical and philosophical development of concepts of human rights and the contemporary international political and legal frameworks to address rights. Analyzes contemporary concerns about political, economic, and social rights, as well as specific human rights topics like human trafficking and war crimes. Compares American, European, Asian, and Developing World conceptions and critiques of human rights.

**POL 3504. Latin American Politics.** (4 cr; prereq 1401 or #; fall, offered periodically)

A comparative examination of central issues in and components of Latin American political life, with a particular focus on economic development, political development of democratic regimes, political violence and human rights, and the region's role in the world. Countries analyzed may include Argentina, Brazil, Chile, Colombia, El Salvador, Mexico, Peru, and Cuba.

**POL 3514. Pyramids and Politics on the Nile.** (IP; 4 cr; prereq #; summer, offered periodically)

Four-week study-abroad course on Egyptian political history with an emphasis on the environmental challenges of the Nile River Valley. Guided excursions, guest speakers, and individual exploration at significant political, historical, and cultural sites in the Cairo area and along the Nile Valley from Aswan to Alexandria.

**POL 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**POL 3996. Field Study in Political Science.** (1-16 cr; max of 4 cr may be applied to the major or minor; fall, spring, every year)

Field study of governmental organization; internship with legislature, a state or local administrative office, lobbying group, or other position involving direct experience with government, governmental officials, or political organizations and environment.

**POL 4205. Seminar in American Politics.** (4 cr; A-F only; prereq 1201, 2001 or #; fall, every year)

The course includes class meetings based on scholarly readings, student-led critical discussion, as well as time devoted to independent research leading to a substantive research paper.

**POL 4305. Seminar in Political Theory.** (4 cr; prereq 1101, 2001 or #; fall, odd years)

The course includes class meetings based on scholarly readings, student-led critical discussion, as well as time devoted to independent research leading to a substantive research paper.

**POL 4405. Seminar in Comparative Politics and International Relations.** (4 cr; prereq 1401, 2001 or #; spring, even years)

The course includes class meetings based on scholarly readings, student-led critical discussion, as well as time devoted to independent research leading to a substantive research paper.

**POL 4905. Senior Research Seminar in Political Science.** (2 cr; prereq 2001, Stat 1601 or Stat 2601, at least one Pol 4XXX course; fall, spring, every year)

Guided research in political science. Requires the refinement and expansion of a research paper students previously completed in a 4000-level political science course. The end result of this revision and expansion is an original, significant research paper of a substantial length. Also requires that the student make an oral presentation of the final work to the discipline faculty and graduating seniors. With faculty approval, the student may produce such a paper based on a research paper previously completed in a 3000-level political science course.

**POL 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Psychology (PSY)

### *Division of the Social Sciences*

The psychology curriculum focuses on understanding scientific methods and applying them to both human and non-human behaviors and mental processes. It provides students with methodological skills, practice in applying these skills, and an introduction to core areas of psychology. The major provides a

comprehensive selection of courses that fully prepare students for a wide range of careers and graduate and professional studies.

The psychology curriculum is designed to ensure that students achieve the following goals:

**Goal 1: Knowledge Base in Psychology**

- 1.1 Understand the spectrum of psychological phenomena related to behavior and mental processes and how the environment (ranging from biological to sociocultural influences) affect both.
- 1.2 Obtain a knowledge of Psychology's main content domains and applications

**Goal 2: Scientific Inquiry and Critical thinking**

- 2.1 Ability to use scientific reasoning to interpret psychological phenomena
- 2.2 Demonstrate psychology information literacy
- 2.3 Engage in innovative and integrative thinking and problem solving
- 2.4 Gain exposure to interpreting, designing, and conducting psychological research
- 2.5 Attain awareness of ethical issues in psychology

**Goal 3: Communication**

- 3.1 Demonstrate effective writing
- 3.2 Exhibit effective presentation skills
- 3.3 Exhibit effective discussion skills

**Goal 4: Information and Technological Literacy**

- 4.1 Exposure to psychological statistical packages
- 4.2 Ability to utilize databases related to psychology

## Psychology Major

No grades below C–are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

PSY 1051–Introduction to Psychology [SS] (4 cr)  
 PSY 2001–Research Methods in Psychology [SS] (4 cr)  
 STAT 1601–Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601–Statistical Methods [M/SR] (4 cr)

*Take at least one course from each of the following areas. One course must be a designated lab course.*

#### Learning and Cognition

*Take 1 or more courses from the following:*  
 PSY 3101–Learning Theory and Behavior Modification (4 cr)  
 PSY 3111–Sensation and Perception (4 cr)  
 PSY 3112–Cognition (4 cr)

#### Biological and Comparative Psychology

*Take 1 or more courses from the following:*  
 PSY 3201–Comparative Psychology [SCI-L] (4 cr)  
 PSY 3211–Biological Psychology [SCI-L] (5 cr)  
 PSY 3221–Behavioral Biology of Women [SCI] (4 cr)  
 PSY 3521–Health Psychology (4 cr)

#### Personality and Clinical Psychology

*Take 1 or more courses from the following:*  
 PSY 3302–Personality (4 cr)  
 PSY 3313–Psychopathology (4 cr)  
 PSY 3314–Child and Adolescent Psychopathology (4 cr)  
 PSY 4101–Helping Relationships (4 cr)  
 PSY 4301–Clinical Assessment and Therapeutic Interventions (4 cr)

#### Developmental Psychology

*Take 1 or more courses from the following:*  
 PSY 2411–Introduction to Lifespan Developmental Psychology [SS] (4 cr)  
 PSY 3051–The Psychology of Women and Gender [HDIV] (4 cr)  
 PSY 3401–Developmental Psychology I: Child Psychology (4 cr)  
 PSY 3402–Developmental Psychology II: Adolescence and Emerging Adulthood (4 cr)

PSY 3403–Developmental Psychology III: Adulthood and Aging [E/CR] (4 cr)

PSY 3404–Culture and Human Development [HDIV] (4 cr)

#### Social and Applied Psychology

*Take 1 or more courses from the following:*  
 PSY 3501–Social Psychology (4 cr)  
 PSY 3502–Psychology and Law (4 cr)  
 PSY 3503–Consumer Behavior [SS] (4 cr)  
 PSY 3504–Educational Psychology (4 cr)  
 PSY 3513–Negotiation (4 cr)  
 PSY 3542–Multicultural Psychology [HDIV] (4 cr)  
 PSY 3701–Organizational Behavior [SS] (4 cr)

#### Advanced Seminar in Psychology

*Take exactly 1 courses from the following:*  
 PSY 4910–Advanced Seminar in Learning or Cognitive Psychology (4 cr)  
 PSY 4920–Advanced Seminar in Biological or Comparative Psychology (4 cr)  
 PSY 4930–Advanced Seminar in Personality or Clinical Psychology (4 cr)  
 PSY 4940–Advanced Seminar in Developmental Psychology (4 cr)  
 PSY 4950–Advanced Seminar in Social Psychology (4 cr)  
 PSY 4960–Advanced Seminar in Health Psychology (4 cr)  
 PSY 4970–Advanced Seminar in Psychology (4 cr)

#### Elective Courses

Additional elective credits to total at least 42 credits in the major (including required courses). Electives may be selected from any category above (except advanced seminars), and the following:

*Take 1 or more courses from the following:*  
 IS 3800–Practicum in Social Sciences (1–2 cr)  
 POL 3263–Political Psychology [SS] (4 cr)  
 PSY 2112–Psycholinguistics [SS] (4 cr)  
 PSY 2581–Drugs and Human Behavior [SS] (2 cr)  
 PSY 2612–Environmental Psychology [ENVT] (4 cr)  
 PSY 2993–Directed Study (1–5 cr)  
 PSY 3051–The Psychology of Women and Gender [HDIV] (4 cr)  
 PSY 3261–Human Sexuality (4 cr)  
 PSY 3315–Parenting and Family Therapy (4 cr)  
 PSY 3611–History and Philosophy of Psychology [HIST] (4 cr)  
 PSY 3800–Research Practicum (1–12 cr)  
 PSY 3993–Directed Study (1–5 cr)  
 PSY 4102–Intro to Prof Conduct, Legal Constraints, Ethics in Human Services [E/CR] (2 cr)  
 PSY 4770–Empirical Investigations in Psychology (4 cr)  
 PSY 4771–Independent Research in Psychology (1–6 cr)  
 PSY 4896–Field Experiences in Psychology (1–4 cr)  
 PSY 4993–Directed Study (1–5 cr)  
 STAT 3601–Data Analysis [M/SR] (4 cr)  
 STAT 3611–Multivariate Statistical Analysis [M/SR] (4 cr)

## Psychology Minor

No grades below C–are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

PSY 1051–Introduction to Psychology [SS] (4 cr)  
 PSY 2001–Research Methods in Psychology [SS] (4 cr)  
 STAT 1601–Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601–Statistical Methods [M/SR] (4 cr)

At least one course from four of the five following areas. One must be a designated lab course.

#### Learning and Cognition

*Take 0–1 course from the following:*  
 PSY 3101–Learning Theory and Behavior Modification (4 cr)  
 PSY 3111–Sensation and Perception (4 cr)  
 PSY 3112–Cognition (4 cr)

**Biological and Comparative Psychology**

Take 0–1 course from the following:

- PSY 3201–Comparative Psychology [SCI-L] (4 cr)  
 PSY 3211–Biological Psychology [SCI-L] (5 cr)  
 PSY 3221–Behavioral Biology of Women [SCI] (4 cr)  
 PSY 3521–Health Psychology (4 cr)

**Personality and Clinical Psychology**

Take 0–1 course from the following:

- PSY 3302–Personality (4 cr)  
 PSY 3313–Psychopathology (4 cr)  
 PSY 3314–Child and Adolescent Psychopathology (4 cr)  
 PSY 4101–Helping Relationships (4 cr)  
 PSY 4301–Clinical Assessment and Therapeutic Interventions (4 cr)

**Developmental Psychology**

Take 0–1 course from the following:

- PSY 2411–Introduction to Lifespan Developmental Psychology [SS] (4 cr)  
 PSY 3051–The Psychology of Women and Gender [HDIV] (4 cr)  
 PSY 3401–Developmental Psychology I: Child Psychology (4 cr)  
 PSY 3402–Developmental Psychology II: Adolescence and Emerging Adulthood (4 cr)  
 PSY 3403–Developmental Psychology III: Adulthood and Aging [E/CR] (4 cr)  
 PSY 3404–Culture and Human Development [HDIV] (4 cr)

**Social and Applied Psychology**

Take 0–1 course from the following:

- PSY 3501–Social Psychology (4 cr)  
 PSY 3502–Psychology and Law (4 cr)  
 PSY 3503–Consumer Behavior [SS] (4 cr)  
 PSY 3504–Educational Psychology (4 cr)  
 PSY 3513–Negotiation (4 cr)  
 PSY 3542–Multicultural Psychology [HDIV] (4 cr)  
 PSY 3701–Organizational Behavior [SS] (4 cr)

**Elective Courses**

Additional elective credits to total at least 30 credits in the minor (including required courses). Electives may be selected from any category above and the following:

Take 1 or more courses from the following:

- IS 3800–Practicum in Social Sciences (1–2 cr)  
 POL 3263–Political Psychology [SS] (4 cr)  
 PSY 2112–Psycholinguistics [SS] (4 cr)  
 PSY 2581–Drugs and Human Behavior [SS] (2 cr)  
 PSY 2612–Environmental Psychology [ENVT] (4 cr)  
 PSY 2993–Directed Study (1–5 cr)  
 PSY 3051–The Psychology of Women and Gender [HDIV] (4 cr)  
 PSY 3315–Parenting and Family Therapy (4 cr)  
 PSY 3611–History and Philosophy of Psychology [HIST] (4 cr)  
 PSY 3800–Research Practicum (1–12 cr)  
 PSY 3993–Directed Study (1–5 cr)  
 PSY 4102–Intro to Prof Conduct, Legal Constraints, Ethics in Human Services [E/CR] (2 cr)  
 PSY 4770–Empirical Investigations in Psychology (4 cr)  
 PSY 4771–Independent Research in Psychology (1–6 cr)  
 PSY 4896–Field Experiences in Psychology (1–4 cr)  
 PSY 4993–Directed Study (1–5 cr)  
 STAT 3601–Data Analysis [M/SR] (4 cr)  
 STAT 3611–Multivariate Statistical Analysis [M/SR] (4 cr)

**Teacher Preparation Requirements**

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Psychology Course Descriptions**

**PSY 1051. Introduction to Psychology.** (SS; 4 cr; fall, spring, every year)

An introduction to the science of mind and behavior. Topics include history of psychology, research methods, biological bases for behavior, life span development, sensation and perception, learning, cognitive and social processes, personality, psychopathology, and applications of psychology.

**PSY 1301. Psychology and Film.** (SS; 4 cr; summer, offered periodically)

The application of psychological theories and principles, with emphasis on social psychology, to film. Examination of how films apply to social issues (e.g., media violence) and how audiences impact upon movie viewing. Class activities include watching films and then analyzing them from a psychological perspective.

**PSY 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PSY 2001. Research Methods in Psychology.** (SS; 4 cr; prereq 1051, Stat 1601 or Stat 2601, psy major or minor, or #; fall, spring, every year) Design, analysis, and interpretation of research in psychology. Instruction on different research techniques and ethics in research. Students conduct, analyze, and evaluate empirical research and gain experience preparing APA-style research reports. Includes laboratory/discussion sessions.

**PSY 2112. Psycholinguistics.** (SS; 4 cr; A-F only; prereq 1051; spring, offered periodically)

An introduction to the crossroads of psychology and linguistics. Topics include: introduction to linguistics, language production and comprehension at various levels, dialogue, language development, reading, and language abnormalities. Specific methods are discussed throughout.

**PSY 2311. Psychology of Excellence.** (SS; 4 cr; prereq 1051; no credit for students who have received credit for IS 1042; spring, offered periodically)

Intervention strategies for enhancing performance in life settings as diverse as academics, career, athletics, performing arts, and interpersonal relations. Psychological theories and research pertaining to the strategies are also covered.

**PSY 2411. Introduction to Lifespan Developmental Psychology.** (SS; 4 cr; prereq 1051; fall, every year)

An introduction to theory, data, and research approaches in development from the prenatal period through childhood, adolescence, adulthood, and aging until the cessation of life. Includes physical, perceptual, cognitive, language, moral, personality, socio-emotional, family, and career development and changes over time, as well as issues of death, dying, and bereavement. Includes a multicultural focus.

**PSY 2581. Drugs and Human Behavior.** (SS; 2 cr; prereq 1051 or #; no credit for students who have received credit for Psy 1081; spring, every year)

Survey of psychoactive drugs, their effects on mind and behavior, and prevention and treatment of drug abuse.

**PSY 2612. Environmental Psychology.** (ENVT; 4 cr; prereq 1051; spring, offered periodically)

Environmental psychology is the study of the relationship between humans and natural and built environments. Traditionally, the emphasis in environmental psychology has been on how human behavior, feelings, and well being are impacted by the environment. Currently, there is an increased emphasis on how humans impact natural environments. This course examines the theories guiding research in this field and reviews the research as it applies to topics such as the effects of weather and climate on behavior, urban and rural environments, crowding, and personal space.

**PSY 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PSY 3051. The Psychology of Women and Gender.** (HDIV; 4 cr; prereq 1051 or #; spring, every year)

Exploration of the interactive biological, psychological, and socio-cultural processes that shape the lives of women and the experience of gender. Topics include: the psychobiology of sex; the social construction of sex and gender; socialization and development; media representations; identity and sexuality; language and communication; motivation and personality; relationships; work and family lives; mental and physical health; mid–and later life development; victimization; therapy; intersections of race, class, and gender; and feminist approaches to teaching, learning, and knowing.

**PSY 3101. Learning Theory and Behavior Modification.** (4 cr; prereq 2001 or #; fall, every year)

Major theories of learning and their importance for understanding human and nonhuman behavior. Classical and operant conditioning, generalization, discrimination, stimulus control, animal cognition. Behavior modification theories and techniques and their application to clinical populations. Lab projects demonstrate learning and behavior modification theories, concepts, and techniques and illustrate research methods and theory testing. Includes lab.

**PSY 3111. Sensation and Perception.** (4 cr; prereq 2001 or #; fall, every year)

Empirical study of sensory processes and perceptual organization with emphasis on vision and audition. Anatomy and physiology of sense organs, psychophysics, signal detection theory, attention, speech perception, and perceptual-motor coordination. Includes lab.

**PSY 3112. Cognition.** (4 cr; prereq 2001 or #; spring, every year)

Empirical study of memory, language behaviors, representation of knowledge, judgment, decision making, problem solving, and creative thinking. Includes lab.

**PSY 3201. Comparative Psychology.** (SCI-L; 4 cr; prereq [1051, 2001] or Biol 2111; spring, every year)

Comparison of the causations of human and non-human animal behavior from both an evolutionary and biological point of view. The contributions of evolutionary selection pressures, genetics, environment, learning, and culture on the expression of behavior in a wide variety of species, through topics such as adaptation, fitness, altruism, social behavior, parental care, reproductive behavior, mating systems, and aggression. Focus on explaining modern human behavior as informed by non-human behavior. Includes lab component.

**PSY 3211. Biological Psychology.** (SCI-L; 5 cr; prereq [1051, 2001] or Biol 1101 or Biol 1111; fall, every year)

Brain organization and function; an emphasis on an understanding of the neural processes that underlie human and nonhuman behavior. Incorporates information from psychology, neuroscience, endocrinology, physiology, chemistry, neurology, and zoology to investigate the physiological bases of behavior. Topics include sensory processes, drugs and addiction, biological rhythms, sexual differentiation, reproduction, methods in neuroscience, neuropsychological disorders, and clinical assessment. Lab projects focus on neuroanatomical organization and function of the brain. (4 hrs lect, 1 hr lab)

**PSY 3221. Behavioral Biology of Women.** (SCI; 4 cr; prereq (3201 or 3211) or Biol 2111 or #; spring, every year)

Exploration of proximate and ultimate influences on female behavior in human and nonhuman species. Topics include sexual differentiation, gender differences in cognition, biological basis of sexual orientation, female sexual selection, dominance, and other topics of interest to students. Readings consist of primary journal articles.

**PSY 3261. Human Sexuality.** (4 cr; prereq 1051, 2001; no credit for students who have received cr for Psy 1071; fall, every year)

Survey of aspects of human sexuality, including intimacy and communication; male and female anatomy, physiology, and response; development of sexual differentiation, gender identity, gender role, and gender orientation; varieties of sexual expression; pregnancy and child birth; contraception and disease prevention; sexual coercion and abuse; sexual dysfunctions and their treatment.

**PSY 3302. Personality.** (4 cr; prereq 1051 or #; spring, every year)

Nature of personality constructs and theories. Conscious vs. nonconscious processes; emotion and motivation; nature and measurement of personal traits; their dimensional structure, stability, development, and heritability.

**PSY 3313. Psychopathology.** (4 cr; prereq 1051 or #; spring, every year)

Psychological disorders and their treatment, including anxiety, personality, mood, schizophrenia, eating, substance and other recognized disorders of adults.

**PSY 3314. Child and Adolescent Psychopathology.** (4 cr; A-F only; prereq 1051 or #; fall, every year)

Broad overview of child and adolescent psychopathology—initially focusing on understanding basic concepts, historical context, developmental influences, theoretical perspectives, research methodology, and issues related to classification and assessment—followed by comprehensive information concerning the major childhood disorders (e.g., ADHD, depression, anxiety, pervasive developmental disorders).

**PSY 3315. Parenting and Family Therapy.** (4 cr; prereq 1051; spring, every year)

Examination of the effects of parenting on the growth and development of children. Emphasizes specific parenting styles and practices and their effects on the social/ emotional development and functioning of children at each stage of life. Provides an overview of the theory and practice of family counseling/therapy. Major systemic theoretical orientations are explored.

**PSY 3401. Developmental Psychology I: Child Psychology.** (4 cr; prereq 1051 or #; fall, every year)

Theory, data, and research in development from conception to adolescence. Prenatal and physical development as well as perceptual, cognitive, personality, and social development. Language acquisition and Piaget's theory of cognitive development.

**PSY 3402. Developmental Psychology II: Adolescence and Emerging Adulthood.** (4 cr; prereq 1051 or #; spring, every year)

Theory, data, and research in adolescent development with emphasis on physical, cognitive, and social development.

**PSY 3403. Developmental Psychology III: Adulthood and Aging.** (E/CR; 4 cr; prereq 1051 or #; fall, every year)

An overview of current concepts, theories, and methods in the study of adult development and aging.

**PSY 3404. Culture and Human Development.** (HDIV; 4 cr; prereq 1051; spring, every year)

Examination of the role of culture in human development through current research and examples from around the world. Learn about similarities and cultural differences in human development, and the regularities that explain these variations. Topics include the concept of culture in developmental psychology, diversity in child rearing practices, enculturation, gender roles, schooling, development in multicultural contexts, and the influence of technology and cultural change on development. Students learn to think culturally about their own development and see how it applies to their future careers.

**PSY 3501. Social Psychology.** (4 cr; prereq 1051 or Soc 1101 or #; fall, every year)

Theories and research in the study of interpersonal behavior. Topics include aggression, prejudice, altruism, persuasion, group dynamics, and social influence.

**PSY 3502. Psychology and Law.** (4 cr; prereq 1051; spring, even years)

A psychological perspective to the law and to the legal system. Topics include jury decision making, forensic psychology, trial processes, eyewitness testimony, and sentencing.

**PSY 3503. Consumer Behavior.** (SS; 4 cr; =[MGMT 3503]; prereq Stat 1601 or Stat 2601 or #; spring, every year)

Same as Mgmt 3503. Psychological basis for understanding consumers. Some of the topics include consumer behavior, consumer cognitive processes, and consumer judgments and decisions.

**PSY 3504. Educational Psychology.** (4 cr; prereq 1051; spring, offered periodically)

Discussion of psychological principles/theories in relation to learning in academic settings. Topics may include: a consideration of developmental and social issues that are likely to impact the learner; a discussion of individual differences in learning; an examination of different theoretical approaches to learning applied specifically to educational settings; an analysis of factors related to student motivation and behavior; and a discussion of issues related to testing and measurement in academic settings.

**PSY 3513. Negotiation.** (4 cr; =[MGMT 3513]; prereq 3501 or Mgmt 3221 or Psy/Mgmt 3701; spring, offered periodically)

Same as Mgmt 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

**PSY 3521. Health Psychology.** (4 cr; prereq 1051; spring, every year)

Health implications of interactions among behavioral, environmental, and physiological states. Physiological bases of behavior and health; stress and coping; behavioral antecedents of disease; psychoneuro-immunology; disease prevention and health promotion.

**PSY 3542. Multicultural Psychology.** (HDIV; 4 cr; =[PSY 3541]; prereq 1051; fall, every year)

Theoretical and methodological approaches to multicultural psychology. Multicultural psychology is the systematic study of behavior, cognition, and affect settings where people of different backgrounds interact. Exploration of these interactions both within and outside of the United



States. Topics may include worldviews, communication styles, acculturation, prejudice, white privilege, identity development, physical and mental health, and multicultural competencies.

**PSY 3611. History and Philosophy of Psychology.** (HIST; 4 cr; prereq 1051 or #; spring, even years)

Historical roots and comparative features of major theoretical systems in psychology, including scientific methodology, research interests, and techniques. Movements within psychology that are discussed include: structuralism, functionalism, behaviorism, Gestaltism, psychoanalytic, and existential movements and their modern syntheses, as well as other topics of interest to students.

**PSY 3701. Organizational Behavior.** (SS; 4 cr; =[MGMT 3701]; prereq Stat 1601 or Stat 2601, jr or sr; fall, offered periodically)

Same as Mgmt 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

**PSY 3800. Research Practicum.** (1-12 cr ; S-N only; fall, spring, every year)

Research activity carried out under the supervision of a psychology faculty member.

**PSY 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**PSY 4101. Helping Relationships.** (4 cr; prereq 8 cr 3xxx or 4xxx Psy or Soc or Anth courses or #; fall, every year)

Approaches to counseling and psychotherapy. Theories of helping relationships. Acquisition of helping skills, including attending behavior, reflection of feeling, paraphrasing, confrontation, and summarization. Major humanistic, cognitive, and behavioral approaches. Didactic instruction, observation of counseling and psychotherapeutic techniques, and practical experiences.

**PSY 4102. Intro to Prof Conduct, Legal Constraints, Ethics in Human Services.** (E/ CR; 2 cr; prereq jr, 8 cr 3xxx or 4xxx Psy or Soc or Anth courses or #; no credit for students who have received credit for IS 4101; fall, spring, every year)

Concepts of professional ethics in human services professions; ethically relevant legal mandates and constraints on professional practice; practical problems in the application of ethical principles.

**PSY 4301. Clinical Assessment and Therapeutic Interventions.** (4 cr; prereq 3313 or 3314 or 4101; spring, every year)

Evaluation of psychological assessments and interventions from different perspectives. Topic examples: structured and unstructured assessments; career counseling and assessment; motivational interviewing; family and couples therapy; interpersonal therapy; group therapy; and solution-focused therapy.

**PSY 4770. Empirical Investigations in Psychology.** (4 cr; A-F only; prereq 2001, #; full year course begins in fall semester; fall, every year)

A yearlong class that provides students with an opportunity to conduct their own research. Students work independently or in groups. Students review an area of psychology, generate a hypothesis, design a study, obtain IRB approval, collect data, analyze data, submit and present their research to the Undergraduate Research Symposium or other instructor-approved venue and write an APA style research paper.

**PSY 4771. Independent Research in Psychology.** (1-6 cr [max 12 cr]; A-F only; prereq 2001, #; fall, spring, every year)

Supervised independent research by a student in any area of psychology. A research proposal may be required by a faculty member prior to approval to enroll in the course. The student is required to write an APA style research paper or give a public presentation.

**PSY 4896. Field Experiences in Psychology.** (1-4 cr ; prereq normally requires 4101, 4102, other courses appropriate to field experience; only 4 cr may be applied to the BA or the Psy major; S-N only; fall, spring, every year)

Individually arranged, supervised observation of and assistance with activities of professional psychologists in schools, clinics, hospitals, and other field settings. Prereq-Normally requires 4101, 4102, other courses appropriate to field experience.

**PSY 4910. Advanced Seminar in Learning or Cognitive Psychology.** (4 cr; A-F only; =[PSY 4710]; prereq 2001, 3101 or 3111 or 3112, sr status, #; spring, every year)

Advanced seminar on selected topics in the area of Learning or Cognitive Psychology. Members of the seminar read and discuss primary source

material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

**PSY 4920. Advanced Seminar in Biological or Comparative Psychology.** (4 cr; A-F only; =[PSY 4720]; prereq 2001, 3201 or 3211, sr status, #; spring, every year)

Advanced seminar on selected topics in the area of Biological and Comparative Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

**PSY 4930. Advanced Seminar in Personality or Clinical Psychology.** (4 cr; A-F only; =[PSY 4730]; prereq 2001, 3302 or 3313 or 3314, sr status, #; fall, every year)

Advanced seminar on selected topics in the area of Personality or Clinical Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

**PSY 4940. Advanced Seminar in Developmental Psychology.** (4 cr; A-F only; =[PSY 4740]; prereq 2001, 3401 or 3402 or 3403, sr status, #; fall, every year)

Advanced seminar on selected topics in the area of Developmental Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

**PSY 4950. Advanced Seminar in Social Psychology.** (4 cr; A-F only; =[PSY 4750]; prereq 2001, 3501, sr status, #; spring, every year)

Advanced seminar on selected topics in the area of Social Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

**PSY 4960. Advanced Seminar in Health Psychology.** (4 cr; A-F only; =[PSY 4760]; prereq 2001, 3521 (or 3201 and 3211), sr status, #; fall, every year)

Advanced seminar on selected topics in the area of Health Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

**PSY 4970. Advanced Seminar in Psychology.** (4 cr; A-F only; prereq 2001, one or more courses from 3 of the 5 psy major cores, sr status, #; fall, spring, every year)

Advanced seminar on selected topics in the area of Psychology. Members of the seminar read and discuss primary source material on a topic selected by the instructor. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

**PSY 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Social Science Major

### *Division of the Social Sciences*

**Objectives**—Students will understand how each social science discipline structures and advances knowledge, raises and answers analytical questions, and deals with competing theories and the changing nature of the field. Students develop a sub-plan in a single discipline or an interdisciplinary social science area within the major.

## Program Requirements

Students work closely with their advisers to plan a program that satisfies the required competencies in a chosen sub-plan and in the social science disciplines. The sub-plan most often is demonstrated by completing the minor in that discipline. Program plans must be on file with the Social Sciences Division Office by the completion of a student's junior year.

No grades below C—are allowed. Courses for the major and in the sub-plan may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Required Courses

While the programs of individual students may vary, based upon arrangements approved by the divisional committee for the social science major, the minimum competencies required for each discipline normally may be achieved by completion of the following courses and a sub-plan:

ANTH 1111–Introductory Cultural Anthropology [SS] (4 cr)  
 ECON 1111–Principles of Microeconomics [SS] (4 cr)  
 ECON 1112–Principles of Macroeconomics [SS] (4 cr)  
 GEOG 2001–Problems in Geography [ENVT] (4 cr)  
 HIST 1111–Introduction to World History [HIST] (4 cr)  
 HIST 1301–Introduction to U.S. History [HIST] (4 cr)  
 POL 1201–American Government and Politics [E/CR] (4 cr)  
 PSY 1051–Introduction to Psychology [SS] (4 cr)  
 SOC 1101–Introductory Sociology [SS] (4 cr)  
 STAT 1601–Introduction to Statistics [M/SR] (4 cr)  
 or STAT 2601–Statistical Methods [M/SR] (4 cr)  
 or Equivalent proficiency in statistics approved by the divisional committee for the social science major.

#### Program Sub-plans

Students are required to complete one of the following sub-plans. (Note: The honors sub-plan does not meet this requirement. Honors students are required to complete one sub-plan plus the honors sub-plan. Please see an adviser if no honors sub-plan is listed for the program.)

#### Anthropology Sub-plan

This sub-plan requires a total of 20 credits.

##### Required Courses

ANTH 2101–Biological Anthropology [SCI-L] (5 cr)  
 ANTH 2103–Archaeology [SS] (4 cr)  
 ANTH 4411–Seminar in Anthropological Methodology [E/CR] (4 cr)

##### Elective Courses

An additional 8 credits (exclusive of those used to complete required courses) in anthropology and sociology; 4 of which must be in courses 2xxx or above. No more than 4 credits can be from SOC courses. No more than 4 credits can be from IS 3796.

*Take at most 4 credits from the following:*

ANTH 1812–Human Societies: Past and Present, Fact and Fiction [IC] (4 cr)  
 ANTH 1813–Culture on TV: An Introduction to Anthropology [IC] (2 cr)  
 ANTH 2202–Men and Masculinities [SS] (4 cr)  
 ANTH 2204–Anthropology of Education: Learning and Schooling in Ethnographic Perspective [SS] (4 cr)  
 ANTH 2206–Sex, Marriage, and Family [HDIV] (4 cr)  
 SOC 1811–Global Sociology: Migration, Economic Globalization, Class, and Gender Inequality [IC] (2 cr)  
 SOC 1812–Human Rights in the Age of Globalization [IC] (2 cr)  
 SOC 1813–Political Economy of "Natural" Disaster [IC] (2 cr)  
 SOC 1814–Water Unites, Water Divides: Sharing Water in the 21st Century [IC] (2 cr)  
 SOC 2101–Systems of Oppression [HDIV] (4 cr)  
 ANTH 1xxx, 2xxx  
 SOC 1xxx, 2xxx

*Take 4 or more credits from the following:*

ANTH 3204–Culture, Food, and Agriculture [ENVT] (4 cr)  
 ANTH 3206–Ecological Anthropology [ENVT] (4 cr)  
 ANTH 3455–North American Archaeology (4 cr)  
 ANTH 3502–Latinos in the Midwest [SS] (4 cr)  
 ANTH 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)  
 ANTH 3602–Women in Latin America [IP] (4 cr)  
 ANTH 3603–Latin American Archaeology (4 cr)  
 ANTH 3701–Forensic Anthropology [SCI-L] (4 cr)  
 ANTH 3704–Anthropological Genetics (4 cr)

ANTH 4501–Archaeological Fieldschool [SS] (4 cr)  
 IS 3796–Interdisciplinary Internship in the Helping Professions (1–16 cr)  
 ANTH 3xxx, 4xxx

#### Sociology Electives

*Take at most 4 credits from the following:*

SOC 3103–Research Methodology in Sociology (4 cr)  
 SOC 3111–Sociology of Modernization [IP] (4 cr)  
 SOC 3112–Sociology of the Environment and Social Development [ENVT] (4 cr)  
 SOC 3121–Sociology of Gender and Sexuality [HDIV] (4 cr)  
 SOC 3122–Sociology of Childhoods [HDIV] (4 cr)  
 SOC 3123–Sociology of Aging [HDIV] (4 cr)  
 SOC 3124–Sociology of Law (4 cr)  
 SOC 3125–Terrorism, Law, and the State [SS] (4 cr)  
 SOC 3131–World Population [ENVT] (4 cr)  
 SOC 3141–Sociology of Deviance [E/CR] (4 cr)  
 SOC 3204–Culture, Food, and Agriculture [ENVT] (4 cr)  
 SOC 3251–African Americans [HDIV] (4 cr)  
 SOC 3252–Women in Muslim Society [IP] (4 cr)  
 SOC 3403–Sociological Theory (4 cr)  
 SOC 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)  
 SOC 3602–Women in Latin America [IP] (4 cr)  
 SOC 3xxx, 4xxx

#### Economics Sub-plan

This sub-plan requires a total of 19 credits.

##### Required Courses

ECON 3201–Microeconomic Theory [SS] (4 cr)  
 ECON 3202–Macroeconomic Theory [SS] (4 cr)  
 MATH 1101–Calculus I [M/SR] (5 cr)

##### Elective Courses

No more than 4 credits from each of the following can be applied to the sub-plan:

ECON x993–Directed Study  
 ECON 4501–Senior Research Seminar in Economics and Management

*Take 6 or more credits from the following:*

ECON 3005–Experimental and Behavioral Economics I [SS] (2 cr)  
 ECON 3006–Experimental and Behavioral Economics II [SS] (2 cr)  
 ECON 3007–Environmental and Natural Resource Economics I [ENVT] (2 cr)  
 ECON 3008–Environmental and Natural Resource Economics II [ENVT] (2 cr)  
 ECON 3009–Political Economy [SS] (4 cr)  
 ECON 3011–Cost-Benefit Analysis [ENVT] (4 cr)  
 ECON 3014–Game Theory: The Theory of Strategic Behavior I [SS] (2 cr)  
 ECON 3015–Game Theory: The Theory of Strategic Behavior II [SS] (2 cr)  
 ECON 3113–Money, Banking, and Financial Markets [SS] (4 cr)  
 ECON 3121–Public Economics I [SS] (2 cr)  
 ECON 3122–Public Economics II [SS] (2 cr)  
 ECON 3131–Comparative Economic Systems [IP] (2 cr)  
 ECON 3133–Economics of China [IP] (2 cr)  
 ECON 3134–Cooperative Business Model [SS] (2 cr)  
 ECON 3141–Economic Development and Growth I [IP] (2 cr)  
 ECON 3142–Economic Development and Growth II [IP] (2 cr)  
 ECON 3153–Contemporary Global Economic Issues [IP] (2 cr)  
 ECON 3211–History of Economic Thought I [HIST] (2 cr)  
 ECON 3212–History of Economic Thought II [HIST] (2 cr)  
 ECON 3351–Globalization: Examining India's Social and Economic Development [IP] (4 cr)  
 ECON 3501–Introduction to Econometrics [M/SR] (4 cr)  
 ECON 3993–Directed Study (1–5 cr)  
 ECON 4101–Labor Economics I [HDIV] (2 cr)  
 ECON 4102–Labor Economics II (2 cr)  
 ECON 4111–Mathematical Economics I (2 cr)  
 ECON 4112–Mathematical Economics II (2 cr)

ECON 4121—International Trade Theory (2 cr)  
 ECON 4131—International Finance (2 cr)  
 ECON 4141—Empirics of Economic Growth (2 cr)  
 ECON 4501—Senior Research Seminar in Economics and Management (2 cr)  
 ECON 4993—Directed Study (1–5 cr)  
 ECON 3xxx, 4xxx

### Gender, Women, and Sexuality Studies Sub-plan

This sub-plan requires a total of 24 credits.

#### Required Courses

GWSS 1101—Introduction to Gender, Women, and Sexuality Studies [HDIV] (4 cr)

#### Elective Courses

An additional 16 or more credits from primary GWSS content courses, and up to 4 credits from partial GWSS content courses. Courses must be from at least three different disciplines.

Note: Some of the courses carry prerequisites.

#### Primarily Gender, Women, and Sexuality Content

Take 16 or more credits from the following:

ANTH 2202—Men and Masculinities [SS] (4 cr)  
 ANTH 2206—Sex, Marriage, and Family [HDIV] (4 cr)  
 ANTH 3602—Women in Latin America [IP] (4 cr)  
 ARTH 3281—Women and Art [FA] (4 cr)  
 ENGL 2031—Gender in Literature and Culture [HDIV] (4 cr)  
 ENGL 3155—20th-Century British Fiction (4 cr)  
 ENGL 3332—African American Women Writers [HDIV] (4 cr)  
 ENGL 3414—Feminist Theory [HDIV] (4 cr)  
 GER 3501—Women's Issues in Contemporary German Culture [IP] (4 cr)  
 GWSS 3001—Troubling Genders in African Cinema [HUM] (4 cr)  
 GWSS 3414—Feminist Theory [HDIV] (4 cr)  
 GWSS 3993—Directed Study (1–5 cr)  
 HIST 1402—Gender, Women, and Sexuality in American History [HDIV] (4 cr)  
 HIST 2704—Gender, Women, and Sexuality in Medieval Europe [SS] (4 cr)  
 HIST 2708—Gender, Women, and Sexuality in Modern Europe [IP] (4 cr)  
 PHIL 2141—Analytic Feminism [HUM] (4 cr)  
 POL 3303—Feminist Political Theory [SS] (2 cr)  
 PSY 3051—The Psychology of Women and Gender [HDIV] (4 cr)  
 PSY 3221—Behavioral Biology of Women [SCI] (4 cr)  
 PSY 3261—Human Sexuality (4 cr)  
 SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)  
 SOC 3252—Women in Muslim Society [IP] (4 cr)  
 SOC 3602—Women in Latin America [IP] (4 cr)  
 SPAN 3654—Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature [HUM] (4 cr)  
 SPAN 3688—Seminar: Literature and Gender in Nineteenth-Century Spain [HUM] (4 cr)

#### Partial Gender, Women, and Sexuality Content

Take at most 4 credits from the following:

ARTS 3014—Media Studies: Fabric as Form [ART/P] (3 cr)  
 ECON 4101—Labor Economics I [HDIV] (2 cr)  
 ENGL 2411—Representations of American Indians in Popular and Academic Culture [HDIV] (4 cr)  
 ENGL 3142—The Rise of the Novel (4 cr)  
 ENGL 3154—19th-Century British Fiction (4 cr)  
 ENGL 3168—Victorian Literature and Culture (4 cr)  
 ENGL 3301—U.S. Multicultural Literature [HDIV] (4 cr)  
 ENGL 3311—American Indian Literature [HDIV] (4 cr)  
 ENGL 3411—Critical Approaches to Literature (4 cr)  
 ENGL 3444—Holocaust Literature and Film [IP] (4 cr)  
 ENGL 3522—Harlem Renaissance [HDIV] (4 cr)  
 ENGL 4031—Research Seminar: Renaissance Romance (4 cr)  
 ENGL 4034—Research Seminar: The Adventure Novel in American and British Literature (4 cr)  
 FREN 1031—Modern Studies: The Modern Body in France [SS] (4 cr)  
 FREN 1302—French Cinema [IP] (4 cr)  
 FREN 1311—Sub-Saharan Francophone Cinema [IP] (4 cr)

FREN 3603—Francophone Studies: Contes francophones (2 cr)  
 HIST 2103—Medieval Europe [HIST] (4 cr)  
 HIST 3008—The Making of the Islamic World [HDIV] (4 cr)  
 HIST 3207—The Crusades [IP] (4 cr)  
 PHIL 2112—Professional Ethics [E/CR] (4 cr)  
 PSY 3404—Culture and Human Development [HDIV] (4 cr)  
 PSY 3542—Multicultural Psychology [HDIV] (4 cr)  
 SOC 2101—Systems of Oppression [HDIV] (4 cr)  
 SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)  
 SOC 3122—Sociology of Childhoods [HDIV] (4 cr)  
 SOC 3123—Sociology of Aging [HDIV] (4 cr)  
 SOC 3141—Sociology of Deviance [E/CR] (4 cr)  
 SPAN 3685—Seminar: Slavery and Abolition in Cuban Literature and Culture [IP] (4 cr)  
 SPAN 3686—Seminar: Writing History in Spanish American Literature [HUM] (4 cr)  
 SPAN 3687—Seminar: Afro-Hispanic Literature and Culture [HDIV] (4 cr)

### History Sub-plan

This sub-plan requires a total of 20 credits.

#### Electives

An additional 16 credits in history of which 12 credits are at 2xxx or above. There should be evidence of work in at least three (3) of the following areas: Asia, Europe, Middle East/Africa, Latin America, Native America/Indigenous, and United States. Directed Studies (X993) may be used in any of the areas if content is appropriate and approved by their major adviser.

Take 16 or more credits including 3 or more sub-requirements(s) from the following:

#### Geographical Areas—1xxx

Take at most 4 credits from the following:

##### Asia

HIST 1501—Introduction to East Asian History: China, Japan, and Korea before 1800. [HIST] (4 cr)

##### Latin America

HIST 1601—Latin American History: A Basic Introduction [IP] (4 cr)

##### United States

HIST 1402—Gender, Women, and Sexuality in American History [HDIV] (4 cr)

#### Geographical Areas—2xxx or above

Take 12 or more credits from the following:

##### Asia

HIST 2551—Modern Japan [HIST] (4 cr)  
 or HIST 2552—History of Modern China [HIST] (4 cr)  
 or HIST 2557—History of Southeast Asia [HIST] (4 cr)  
 or HIST 3557—East Asia Since 1800 [IP] (4 cr)

##### Europe

HIST 2103—Medieval Europe [HIST] (4 cr)  
 or HIST 2151—Modern Europe [HIST] (4 cr)  
 or HIST 2704—Gender, Women, and Sexuality in Medieval Europe [SS] (4 cr)  
 or HIST 2708—Gender, Women, and Sexuality in Modern Europe [IP] (4 cr)  
 or HIST 3101—Renaissance and Reformation [HIST] (4 cr)  
 or HIST 3102—Early Modern Europe [HIST] (4 cr)  
 or HIST 3161—The Enlightenment [HIST] (4 cr)  
 or HIST 3162—The Scottish Enlightenment: Markets, Minds, and Morals [IP] (4 cr)  
 or HIST 3176—Berlin as a Site of History [HIST] (4 cr)  
 or HIST 3177—Virtue and Vice in Amsterdam: From the Golden Age to the Global Age [IP] (4 cr)  
 or HIST 3204—Nazi Germany [HIST] (4 cr)  
 or HIST 3207—The Crusades [IP] (4 cr)  
 or HIST 3209—Modern Germany [HIST] (4 cr)  
 or HIST 3211—Modern France [HIST] (4 cr)  
 or HIST 3213—Modern Britain: Society, Culture and Politics [HIST] (4 cr)

**Middle East/Africa**

HIST 3008—The Making of the Islamic World [HDIV] (4 cr)

**Latin America**

HIST 2608—History of Cuba: From Colony to Revolutionary State [HIST] (4 cr)

or HIST 2609—History of Brazil: From Sugar to Sugar Cars [HIST] (4 cr)

or HIST 3601—Great Books in Latin American History [IP] (4 cr)

or HIST 3612—Social Revolution in 20th-Century Latin America [HIST] (4 cr)

or HIST 3613—U.S.-Latin American Relations in Historical Perspective [IP] (4 cr)

or HIST 3614—Race and Ethnicity in Latin America [HDIV] (4 cr)

**Native American/Indigenous**

HIST 2251—American Indians and the United States: A History [HDIV] (4 cr)

or HIST 2451—The American West [HIST] (4 cr)

or HIST 3359—Native Strategies for Survival, 1880-1920 [HDIV] (4 cr)

**United States**

HIST 2352—The U.S. 1960s [HIST] (4 cr)

or HIST 2452—Minnesota History [HIST] (4 cr)

or HIST 3303—Creation of the American Republic [HIST] (4 cr)

or HIST 3304—Race, Class, and Gender in American History [HDIV] (4 cr)

or HIST 3351—The U.S. Presidency Since 1900 [SS] (4 cr)

or HIST 3353—World War II [HIST] (4 cr)

or HIST 3355—United States in Transition, 1877-1920 [HIST] (4 cr)

or HIST 3356—Civil Rights Movement, 1954-1974 [HIST] (4 cr)

or HIST 3358—Civil War and Reconstruction [HIST] (4 cr)

or HIST 3360—American Experience in World War II [HIST] (4 cr)

or HIST 3361—An Environmental and Geographic History of the United States [ENVT] (4 cr)

or HIST 3453—The American Presidency, 1789-1900 [HIST] (4 cr)

or HIST 3455—American Immigration [HIST] (4 cr)

or HIST 3456—History of Religion in America [HIST] (4 cr)

or HIST 3464—History of Suburban America [HIST] (4 cr)

or HIST 3465—History of the American Family [HIST] (4 cr)

**Management Sub-plan**

This sub-plan requires a total of 18 credits.

**Required Courses**

MGMT 2101—Principles of Accounting I (4 cr)

MGMT 2102—Principles of Accounting II (2 cr)

**Elective Courses**

No more than 4 credits from each of the following can be applied to the sub-plan:

ECON 4501—Senior Research Seminar in Economics and Management

MGMT x993—Directed Study

*Take 12 or more credits from the following:*

MGMT 3101—Financial Management [SS] (4 cr)

MGMT 3102—Financial Institutions [SS] (2 cr)

MGMT 3123—Managerial Economics [SS] (4 cr)

MGMT 3133—Managerial Accounting (4 cr)

MGMT 3134—Cooperative Business Model (2 cr)

MGMT 3141—Business Law I (2 cr)

MGMT 3142—Business Law II (2 cr)

MGMT 3151—Human Resources Management I [E/CR] (2 cr)

MGMT 3152—Human Resources Management II [HDIV] (2 cr)

MGMT 3161—Labor Management Relations I [E/CR] (2 cr)

MGMT 3162—Labor Management Relations II [SS] (2 cr)

MGMT 3171—Leadership in Organizations [SS] (2 cr)

MGMT 3201—Marketing Principles and Strategy [SS] (4 cr)

MGMT 3221—Management and Organization Theory [SS] (4 cr)

MGMT 3351—Globalization: Examining India's Social and Economic Development [IP] (4 cr)

MGMT 3352—Emerging Markets in Asia [IP] (4 cr)

MGMT 3501—Applied Deterministic Modeling for Management Science (2 cr)

MGMT 3502—Applied Probabilistic Modeling for Management Science (2 cr)

MGMT 3503—Consumer Behavior [SS] (4 cr)

MGMT 3513—Negotiation (4 cr)

MGMT 3601—Transnational Enterprise [IP] (4 cr)

MGMT 3701—Organizational Behavior [SS] (4 cr)

MGMT 3993—Directed Study (1–5 cr)

MGMT 4101—Investment and Portfolio Analysis (4 cr)

MGMT 4201—The Economics of Corporate Strategy I (2 cr)

MGMT 4202—The Economics of Corporate Strategy II (2 cr)

MGMT 4501—Globalization and Business Strategy (2 cr)

MGMT 4502—Technological Change, Labor Market, and Skill Formation (2 cr)

MGMT 4505—International Managerial Finance (2 cr)

MGMT 4601—Advanced Topics in Financial Economics (2 cr)

MGMT 4602—Long-Term Financing (2 cr)

MGMT 4603—Working Capital Management (2 cr)

MGMT 4896—Internship (1–4 cr)

MGMT 4993—Directed Study (1–5 cr)

MGMT 3xxx, 4xxx

**Political Science Sub-plan**

This sub-plan requires a total of 20 credits.

**Elective Courses**

An additional 16 credits (exclusive of those used to complete required courses); 8 of which must be in courses above 2xxx.

**Elective Courses—1xxx-2xxx**

*Take at most 8 credits from the following:*

POL 1101—Introduction to Political Theory [E/CR] (4 cr)

POL 1202—Law and Society: Introduction to Public Law [SS] (4 cr)

POL 1401—World Politics [IP] (4 cr)

POL 1xxx, 2xxx

**Elective Courses—3xxx or above**

*Take 8 or more credits from the following:*

POL 2001—Political Science Research Methods [SS] (4 cr)

POL 2221—The American Judicial Process [SS] (2 cr)

POL 2222—The U.S. Supreme Court [SS] (2 cr)

POL 2234—Race, Class and Power: Social Movements in U.S. Politics [HDIV] (2 cr)

POL 2235—Race, Class and Power: Interest Groups in U.S. Politics [HDIV] (2 cr)

POL 2261—States: Laboratories of American Democracy [E/CR] (2 cr)

POL 2262—Power and Politics in American Cities and Communities [E/CR] (2 cr)

POL 2301—Anarchy and Utopia [HUM] (2 cr)

POL 2302—Gandhi and the Politics of Resistance [SS] (2 cr)

POL 2354—Political Ethics [E/CR] (4 cr)

POL 2401—U.S. Foreign Policy [IP] (4 cr)

POL 2411—The United Nations: Simulated Negotiations [IP] (2 cr)

POL 2461—Diplomatic Negotiation [IP] (4 cr)

POL 2501—East Asian Society and Politics [SS] (4 cr)

POL 3201—Legislative Process [SS] (4 cr)

POL 3211—The American Presidency [SS] (4 cr)

POL 3231—Constitutional Law: Civil Liberties and Civil Rights [HDIV] (4 cr)

POL 3232—Constitutional Law: Governmental Powers and Constraints [SS] (4 cr)

POL 3251—Political Participation and Voting Behavior [SS] (4 cr)

POL 3263—Political Psychology [SS] (4 cr)

POL 3266—Media and Politics [SS] (4 cr)

POL 3272—Making Environmental Public Policy [ENVT] (4 cr)

POL 3302—Islamic Political Thought [SS] (2 cr)

POL 3303—Feminist Political Theory [SS] (2 cr)

POL 3351—Ancient and Medieval Political Thought [HUM] (4 cr)

POL 3352—Modern Political Thought [HUM] (4 cr)

POL 3355—Environmental Political Theory [ENVT] (4 cr)

POL 3411—International Law [E/CR] (4 cr)

POL 3451—Comparative Foreign Policy (4 cr)

POL 3453–Russian Politics and Foreign Policy [IP] (4 cr)  
 POL 3475–International Human Rights (4 cr)  
 POL 3504–Latin American Politics (4 cr)  
 POL 3996–Field Study in Political Science (1–16 cr)  
 POL 4205–Seminar in American Politics (4 cr)  
 POL 4305–Seminar in Political Theory (4 cr)  
 POL 4405–Seminar in Comparative Politics and International Relations (4 cr)  
 POL 3xxx, 4xxx

### Psychology Sub-plan

This sub-plan requires a total of 22 credits.

#### Required Courses

In addition to PSY 2001, students must complete at least one course from four of the five areas. One must be a designated lab course.

PSY 2001–Research Methods in Psychology [SS] (4 cr)

#### Learning and Cognition

*Take 0 or more courses from the following:*

PSY 3101–Learning Theory and Behavior Modification (4 cr)

PSY 3111–Sensation and Perception (4 cr)

PSY 3112–Cognition (4 cr)

#### Biological and Comparative Psychology

*Take 0 or more courses from the following:*

PSY 3201–Comparative Psychology [SCI-L] (4 cr)

PSY 3211–Biological Psychology [SCI-L] (5 cr)

PSY 3221–Behavioral Biology of Women [SCI] (4 cr)

PSY 3521–Health Psychology (4 cr)

#### Personality and Clinical Psychology

*Take 0 or more courses from the following:*

PSY 3302–Personality (4 cr)

PSY 3313–Psychopathology (4 cr)

PSY 3314–Child and Adolescent Psychopathology (4 cr)

PSY 4101–Helping Relationships (4 cr)

PSY 4301–Clinical Assessment and Therapeutic Interventions (4 cr)

#### Developmental Psychology

*Take 0 or more courses from the following:*

PSY 2411–Introduction to Lifespan Developmental Psychology [SS] (4 cr)

PSY 3051–The Psychology of Women and Gender [HDIV] (4 cr)

PSY 3401–Developmental Psychology I: Child Psychology (4 cr)

PSY 3402–Developmental Psychology II: Adolescence and Emerging Adulthood (4 cr)

PSY 3403–Developmental Psychology III: Adulthood and Aging [E/CR] (4 cr)

PSY 3404–Culture and Human Development [HDIV] (4 cr)

#### Social and Applied Psychology

*Take 0 or more courses from the following:*

PSY 3501–Social Psychology (4 cr)

PSY 3502–Psychology and Law (4 cr)

PSY 3503–Consumer Behavior [SS] (4 cr)

PSY 3504–Educational Psychology (4 cr)

PSY 3513–Negotiation (4 cr)

PSY 3542–Multicultural Psychology [HDIV] (4 cr)

PSY 3701–Organizational Behavior [SS] (4 cr)

#### Elective Courses

Additional elective credits to total at least 22 credits in the psychology sub-plan (including required courses). Electives may be selected from any category above and the following:

*Take 0 or more courses from the following:*

IS 3800–Practicum in Social Sciences (1–2 cr)

POL 3263–Political Psychology [SS] (4 cr)

PSY 2112–Psycholinguistics [SS] (4 cr)

PSY 2581–Drugs and Human Behavior [SS] (2 cr)

PSY 2612–Environmental Psychology [ENVT] (4 cr)

PSY 2993–Directed Study (1–5 cr)

PSY 3051–The Psychology of Women and Gender [HDIV] (4 cr)

PSY 3315–Parenting and Family Therapy (4 cr)

PSY 3611–History and Philosophy of Psychology [HIST] (4 cr)

PSY 3800–Research Practicum (1–12 cr)

PSY 3993–Directed Study (1–5 cr)

PSY 4102–Intro to Prof Conduct, Legal Constraints, Ethics in Human Services [E/CR] (2 cr)

PSY 4770–Empirical Investigations in Psychology (4 cr)

PSY 4771–Independent Research in Psychology (1–6 cr)

PSY 4896–Field Experiences in Psychology (1–4 cr)

PSY 4993–Directed Study (1–5 cr)

STAT 3601–Data Analysis [M/SR] (4 cr)

STAT 3611–Multivariate Statistical Analysis [M/SR] (4 cr)

### Sociology Sub-plan

This sub-plan requires a total of 20 credits.

#### Required Courses

SOC 3103–Research Methodology in Sociology (4 cr)

SOC 3403–Sociological Theory (4 cr)

#### Elective Courses

No more than 4 credits of the 12 elective credits required for the sub-plan can be from ANTH courses. No more than 4 cr can be from IS 3796. SOC 4991 is strongly recommended.

*Take at most 4 credits from the following:*

ANTH 2101–Biological Anthropology [SCI-L] (5 cr)

ANTH 2103–Archaeology [SS] (4 cr)

ANTH 2202–Men and Masculinities [SS] (4 cr)

ANTH 2206–Sex, Marriage, and Family [HDIV] (4 cr)

ANTH 3204–Culture, Food, and Agriculture [ENVT] (4 cr)

ANTH 3206–Ecological Anthropology [ENVT] (4 cr)

ANTH 3455–North American Archaeology (4 cr)

ANTH 3502–Latinos in the Midwest [SS] (4 cr)

ANTH 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)

ANTH 3602–Women in Latin America [IP] (4 cr)

ANTH 3603–Latin American Archaeology (4 cr)

ANTH 3701–Forensic Anthropology [SCI-L] (4 cr)

ANTH 3704–Anthropological Genetics (4 cr)

ANTH 4411–Seminar in Anthropological Methodology [E/CR] (4 cr)

ANTH 4901–Seminar in Anthropological Theory (4 cr)

IS 3796–Interdisciplinary Internship in the Helping Professions (1–16 cr)

ANTH 2xxx, 3xxx, 4xxx

*Take 8 or more credits from the following:*

SOC 1811–Global Sociology: Migration, Economic Globalization, Class, and Gender Inequality [IC] (2 cr)

SOC 1812–Human Rights in the Age of Globalization [IC] (2 cr)

SOC 1813–Political Economy of "Natural" Disaster [IC] (2 cr)

SOC 1814–Water Unites, Water Divides: Sharing Water in the 21st Century [IC] (2 cr)

SOC 2101–Systems of Oppression [HDIV] (4 cr)

SOC 3111–Sociology of Modernization [IP] (4 cr)

SOC 3112–Sociology of the Environment and Social Development [ENVT] (4 cr)

SOC 3121–Sociology of Gender and Sexuality [HDIV] (4 cr)

SOC 3122–Sociology of Childhoods [HDIV] (4 cr)

SOC 3123–Sociology of Aging [HDIV] (4 cr)

SOC 3124–Sociology of Law (4 cr)

SOC 3125–Terrorism, Law, and the State [SS] (4 cr)

SOC 3131–World Population [ENVT] (4 cr)

SOC 3141–Sociology of Deviance [E/CR] (4 cr)

SOC 3204–Culture, Food, and Agriculture [ENVT] (4 cr)

SOC 3251–African Americans [HDIV] (4 cr)

SOC 3252–Women in Muslim Society [IP] (4 cr)

SOC 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)

SOC 3602–Women in Latin America [IP] (4 cr)

SOC 4991–Sociology Independent Project Seminar (4 cr)

SOC 2xxx, 3xxx, 4xxx

## Social Science Major Course Descriptions

**ANTH 1111. Introductory Cultural Anthropology.** (SS; 4 cr; fall, spring, every year)

Varieties and range of human behavior as revealed through the comparative study of cultures throughout the world. Concepts developed by anthropologists to explain both the unity and diversity of humankind.

**ECON 1111. Principles of Microeconomics.** (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Study of scarce resource allocation in a market economy. Supply and demand, consumer theory, theory of the firm, market structure, pricing of factors of production, income distribution and the role of government.

**ECON 1112. Principles of Macroeconomics.** (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Introduction to basic economic problems, concepts, and theoretical models. U.S. economic institutions and the economic organization of society. The role of markets in the production and distribution of societal resources. Measurement of economic performance; national income, inflation, and unemployment; competing macroeconomic theories and stabilization policies.

**GEOG 2001. Problems in Geography.** (ENVT; 4 cr; spring, every year)

Basic concepts and questions in the field of geography. The terminology and approaches of geographical inquiry and analysis, with emphasis on the spatial patterns and arrangements of human interaction with the landscape and the production of geographical knowledge.

**HIST 1111. Introduction to World History.** (HIST; 4 cr; =[HIST 1101, HIST 1102]; fall, spring, every year)

Methods, themes, and problems in the study of world history.

**HIST 1301. Introduction to U.S. History.** (HIST; 4 cr; fall, every year)

Methods, themes, and problems in the study of the history of the United States.

**POL 1201. American Government and Politics.** (E/CR; 4 cr; fall, spring, every year)

Analysis of principles, organization, procedures, and powers of government in the United States. The federal system, national constitution, civil and political rights, party system; nature, structure, powers, and procedures of legislative, executive, and judicial departments of the national government.

**PSY 1051. Introduction to Psychology.** (SS; 4 cr; fall, spring, every year)

An introduction to the science of mind and behavior. Topics include history of psychology, research methods, biological bases for behavior, life span development, sensation and perception, learning, cognitive and social processes, personality, psychopathology, and applications of psychology.

**SOC 1101. Introductory Sociology.** (SS; 4 cr; fall, spring, every year)

Introduction to the field of sociology, the exploration of societies, and how societies operate. Sociology broadens social insights, fosters critical thinking, guides analytical thinking, and develops writing skills. By actively thinking about issues facing societies today, students learn to examine life situations and the influence of societies and groups on people's lives, careers, hopes, fears, and personalities. Emphasis on how society is stratified: how organizations and institutions influence the way people think, talk, feel, and act and how different groups (e.g., racial and ethnic) and divisions (e.g., gender and social class) within society have different access to power and privilege. People live their lives in relation to social and physical environments; sociologists study these environments and their effects on people's experiences and behavior.

**STAT 1601. Introduction to Statistics.** (M/ SR; 4 cr; prereq high school higher algebra; fall, spring, every year)

Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

**STAT 2601. Statistical Methods.** (M/SR; 4 cr; prereq Math 1101 or Math 1021; fall, every year)

Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical

methods; linear regression and correlation, ANOVA, nonparametric statistics, statistical quality control, use of statistical computer packages.

## Sociology (SOC)

### Division of the Social Sciences

**Objectives**—The sociology curriculum (with support from anthropology courses) is designed to acquaint students with the concerns, theories, and methods of the science that deals with groups, culture, and interpersonal relations of human beings. In addition to an introduction to sociology as a science, an effort is made to relate human values to the theories, methods, and data of sociology. Courses are designed to meet the needs of liberal arts students, as well as students preparing for graduate school.

## Sociology Major

Students develop a coherent program of study in consultation with their major adviser generally no later than the spring semester of their sophomore year.

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

The discipline strongly recommends STAT 1601.  
 SOC 1101—Introductory Sociology [SS] (4 cr)  
 SOC 3103—Research Methodology in Sociology (4 cr)  
 SOC 3403—Sociological Theory (4 cr)  
 SOC 4991—Sociology Independent Project Seminar (4 cr)

### Elective Courses

No more than 8 credits of the 20 elective credits required for the major can be from ANTH courses. No more than 4 cr can be from IS 3796.

*Take 20 or more credits from the following:*

*Take 12 or more credits from the following:*

SOC 1811—Global Sociology: Migration, Economic Globalization, Class, and Gender Inequality [IC] (2 cr)  
 SOC 1812—Human Rights in the Age of Globalization [IC] (2 cr)  
 SOC 1813—Political Economy of "Natural" Disaster [IC] (2 cr)  
 SOC 1814—Water Unites, Water Divides: Sharing Water in the 21st Century [IC] (2 cr)  
 SOC 2101—Systems of Oppression [HDIV] (4 cr)  
 SOC 3111—Sociology of Modernization [IP] (4 cr)  
 SOC 3112—Sociology of the Environment and Social Development [ENVT] (4 cr)  
 SOC 3121—Sociology of Gender and Sexuality [HDIV] (4 cr)  
 SOC 3122—Sociology of Childhoods [HDIV] (4 cr)  
 SOC 3123—Sociology of Aging [HDIV] (4 cr)  
 SOC 3124—Sociology of Law (4 cr)  
 SOC 3125—Terrorism, Law, and the State [SS] (4 cr)  
 SOC 3131—World Population [ENVT] (4 cr)  
 SOC 3141—Sociology of Deviance [E/CR] (4 cr)  
 SOC 3204—Culture, Food, and Agriculture [ENVT] (4 cr)  
 SOC 3251—African Americans [HDIV] (4 cr)  
 SOC 3252—Women in Muslim Society [IP] (4 cr)  
 SOC 3601—Social Justice and Human Rights in Latin America [IP] (4 cr)  
 SOC 3602—Women in Latin America [IP] (4 cr)  
 SOC 2xxx, 3xxx, 4xxx

*Take at most 8 credits from the following:*

ANTH 1111—Introductory Cultural Anthropology [SS] (4 cr)  
 ANTH 2101—Biological Anthropology [SCI-L] (5 cr)  
 ANTH 2103—Archaeology [SS] (4 cr)  
 ANTH 2202—Men and Masculinities [SS] (4 cr)  
 ANTH 2206—Sex, Marriage, and Family [HDIV] (4 cr)  
 ANTH 3204—Culture, Food, and Agriculture [ENVT] (4 cr)

ANTH 3206–Ecological Anthropology [ENVT] (4 cr)  
 ANTH 3455–North American Archaeology (4 cr)  
 ANTH 3502–Latinos in the Midwest [SS] (4 cr)  
 ANTH 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)  
 ANTH 3602–Women in Latin America [IP] (4 cr)  
 ANTH 3603–Latin American Archaeology (4 cr)  
 ANTH 3701–Forensic Anthropology [SCI-L] (4 cr)  
 ANTH 3704–Anthropological Genetics (4 cr)  
 ANTH 4411–Seminar in Anthropological Methodology [E/CR] (4 cr)  
 ANTH 4901–Seminar in Anthropological Theory (4 cr)  
 IS 3796–Interdisciplinary Internship in the Helping Professions (1–16 cr)  
 ANTH 2xxx, 3xxx, 4xxx

## Sociology Minor

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B. Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

SOC 1101–Introductory Sociology [SS] (4 cr)  
 SOC 3103–Research Methodology in Sociology (4 cr)  
 SOC 3403–Sociological Theory (4 cr)

### Elective Courses

No more than 4 credits of the 12 elective credits required for the minor can be from ANTH courses. No more than 4 cr can be from IS 3796.

SOC 4991 is strongly recommended.

*Take 12 or more credits from the following:*

SOC 1811–Global Sociology: Migration, Economic Globalization, Class, and Gender Inequality [IC] (2 cr)  
 SOC 1812–Human Rights in the Age of Globalization [IC] (2 cr)  
 SOC 1813–Political Economy of "Natural" Disaster [IC] (2 cr)  
 SOC 1814–Water Unites, Water Divides: Sharing Water in the 21st Century [IC] (2 cr)  
 SOC 2101–Systems of Oppression [HDIV] (4 cr)  
 SOC 3111–Sociology of Modernization [IP] (4 cr)  
 SOC 3112–Sociology of the Environment and Social Development [ENVT] (4 cr)  
 SOC 3121–Sociology of Gender and Sexuality [HDIV] (4 cr)  
 SOC 3122–Sociology of Childhoods [HDIV] (4 cr)  
 SOC 3123–Sociology of Aging [HDIV] (4 cr)  
 SOC 3124–Sociology of Law (4 cr)  
 SOC 3125–Terrorism, Law, and the State [SS] (4 cr)  
 SOC 3131–World Population [ENVT] (4 cr)  
 SOC 3141–Sociology of Deviance [E/CR] (4 cr)  
 SOC 3204–Culture, Food, and Agriculture [ENVT] (4 cr)  
 SOC 3251–African Americans [HDIV] (4 cr)  
 SOC 3252–Women in Muslim Society [IP] (4 cr)  
 SOC 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)  
 SOC 3602–Women in Latin America [IP] (4 cr)  
 SOC 4991–Sociology Independent Project Seminar (4 cr)  
 SOC 2xxx, 3xxx, 4xxx

*Take at most 4 credits from the following:*

ANTH 1111–Introductory Cultural Anthropology [SS] (4 cr)  
 ANTH 2101–Biological Anthropology [SCI-L] (5 cr)  
 ANTH 2103–Archaeology [SS] (4 cr)  
 ANTH 2202–Men and Masculinities [SS] (4 cr)  
 ANTH 2206–Sex, Marriage, and Family [HDIV] (4 cr)  
 ANTH 3204–Culture, Food, and Agriculture [ENVT] (4 cr)  
 ANTH 3206–Ecological Anthropology [ENVT] (4 cr)  
 ANTH 3455–North American Archaeology (4 cr)  
 ANTH 3502–Latinos in the Midwest [SS] (4 cr)

ANTH 3601–Social Justice and Human Rights in Latin America [IP] (4 cr)  
 ANTH 3602–Women in Latin America [IP] (4 cr)  
 ANTH 3603–Latin American Archaeology (4 cr)  
 ANTH 3701–Forensic Anthropology [SCI-L] (4 cr)  
 ANTH 3704–Anthropological Genetics (4 cr)  
 ANTH 4411–Seminar in Anthropological Methodology [E/CR] (4 cr)  
 ANTH 4901–Seminar in Anthropological Theory (4 cr)  
 IS 3796–Interdisciplinary Internship in the Helping Professions (1–16 cr)  
 ANTH 2xxx, 3xxx, 4xxx

## Sociology Course Descriptions

**SOC 1101. Introductory Sociology.** (SS; 4 cr; fall, spring, every year) Introduction to the field of sociology, the exploration of societies, and how societies operate. Sociology broadens social insights, fosters critical thinking, guides analytical thinking, and develops writing skills. By actively thinking about issues facing societies today, students learn to examine life situations and the influence of societies and groups on people's lives, careers, hopes, fears, and personalities. Emphasis on how society is stratified: how organizations and institutions influence the way people think, talk, feel, and act and how different groups (e.g., racial and ethnic) and divisions (e.g., gender and social class) within society have different access to power and privilege. People live their lives in relation to social and physical environments; sociologists study these environments and their effects on people's experiences and behavior.

**SOC 1811. Global Sociology: Migration, Economic Globalization, Class, and Gender Inequality.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically) Examination of the global impact of migration on both societies receiving immigrants and societies from which people emigrate, the effect of economic globalization, class and gender inequality. A major goal of the course is to provide students with a systematic way of making sense of a rapidly changing and complex world. Learn from sociological perspectives what it means to live in an interdependent world.

**SOC 1812. Human Rights in the Age of Globalization.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; spring, offered periodically) Exploration of the relationship between globalization and human rights. Globalization as the driving force of capitalism has produced both positive and negative impacts on human rights. Optimists argue that integration into the global world of the free market will foster democracy and human rights, while critics challenge this optimism. Explores these contradictory views and processes. The course is interdisciplinary and integrates perspectives and concepts from different academic fields.

**SOC 1813. Political Economy of "Natural" Disaster.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically) Examine the political economy of natural disasters through a survey of events drawn from around the world. Disasters can be viewed from multiple social perspectives (economic, political, ecological, and personal) and each of these carries implicit and explicit political judgments about how the environment should be managed. The following events offer rich documentation (academic and popular media) about the impact of governmental decisions prior to and in the aftermath of each event: famine-South Asian famine of 1770s, earthquake-Haiti 2010, deforestation/erosion-Nepal 1970s, hurricane-Katrina 2005, flood-Johnstown Flood of 1889, tsunami-South Asian tsunami of 2004.

**SOC 1814. Water Unites, Water Divides: Sharing Water in the 21st Century.** (IC; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically) With the effects of climate change and the world's population increasing, demands for water have also intensified. Survey of water conflicts around the world with a view to assess how nations can better manage available water within and across borders.

**SOC 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) Individualized on- or off-campus research project or other learning activity not covered in the regular Sociology curriculum. Topic determined by the student and instructor.

**SOC 2101. Systems of Oppression.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year) Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some

attention to other systems of oppression such as heterosexism and ageism.

**SOC 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year) Individualized on–or off-campus research project or other learning activity not covered in the regular Sociology curriculum. Topic determined by the student and instructor.

**SOC 3103. Research Methodology in Sociology.** (4 cr; prereq 1101; fall, every year)

An introduction to research procedures used in sociology. Developing a research design and applying it to a concrete problem. Questions of validity and reliability examined in the context of research projects developed by the students.

**SOC 3111. Sociology of Modernization.** (IP; 4 cr; prereq 1101 or Anth 1111 or #; spring, every year)

Process of modernization in non-Western societies. Social, economic, and political impact of modernization from different theoretical perspectives. Assessment of those theoretical perspectives as a means to understand dynamics of change in Third World countries.

**SOC 3112. Sociology of the Environment and Social Development.** (ENVT; 4 cr; prereq 1101 or #; fall, odd years)

Introduces students to the sociological study of the environment and social development. Examines the impact of international environmental and development efforts on individuals at the local level. Focuses on grassroots environmental activism and social development work. Explores and discusses power relations and systems of inequality within the context of environmental and social development efforts.

**SOC 3121. Sociology of Gender and Sexuality.** (HDIV; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Introduces students to the sociological study of gender and sexuality. Focuses on gender difference and gender inequality. Analyzes the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today's world. Following a theoretical overview, examines how gender and sexuality affect everyday experiences.

**SOC 3122. Sociology of Childhoods.** (HDIV; 4 cr; prereq 1101 or #; spring, even years)

Introduces students to the sociological study of childhoods. Examines the interaction between societies and their youngest members-how societies shape children's lives through social institutions such as families, education, and the state. Takes a close look at children's access to privileges and resources as determined by children's experiences of race, gender, class, nationality, and sexual orientation.

**SOC 3123. Sociology of Aging.** (HDIV; 4 cr; prereq 1101; spring, every year)

An introduction to sociology of aging. Examination of the major theories of social aging as well as the historical and cross-cultural variations in aging and differences by race, ethnicity, gender, and social class.

**SOC 3124. Sociology of Law.** (4 cr; prereq 1101; spring, every year)

Explore the emergence and function of law through the lens of social theories. The course assumes law is embodied in the social structure of society; hence, it is the product of social interaction. Based on this assumption, it examines the role of law in maintaining and reproducing social order, class, race, and gender inequalities. The course is interdisciplinary and comparative in its scope and integrates jurisprudence and various social science theories.

**SOC 3125. Terrorism, Law, and the State.** (SS; 4 cr; fall, offered periodically)

Examination of issues of violence, justice, and the responses of the state. Integrate competing political views and different cross-cultural perspectives. Explore answers for some difficult questions such as defining terrorism, should states suspend constitutional rights and abrogate human rights to face the threat of terrorism; does terrorist violence differ from the violence perpetuated by nation-states? Students learn and assess the complexities of competing moral and ideological values of terrorists and that of the liberal democracies.

**SOC 3131. World Population.** (ENVT; 4 cr; prereq 1101 or #; fall, every year)

Population theory and demographic method. Dynamics of fertility and mortality as the basis of population forecasting and its policy implications. Emphasis on the tie between Third World demographic trends and population issues in the rest of the world.

**SOC 3141. Sociology of Deviance.** (E/CR; 4 cr; prereq 1101 or #; fall, even years)

Introduces students to the sociological study of deviance. Explores the

social reality of deviance within contemporary society and examines the social construction of deviant categories. Focuses on images of deviance as social constructs, rather than as intrinsic elements of human behavior. Investigates the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also, examines the socio-cultural definitions of morality and behavior.

**SOC 3204. Culture, Food, and Agriculture.** (ENVT; 4 cr; =[ANTH 3204]; prereq 1101 or Anth 1111 or #; spring, every year)

Same as Anth 3204. Examines the globalization of food systems utilizing a political ecology perspective to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.

**SOC 3251. African Americans.** (HDIV; 4 cr; prereq 1101 or Anth 1111; fall, spring, offered periodically)

Examination of African American religious, economic, political, family, and kinship institutions in the context of the greater American society. Struggles to overcome problems and the degree of success or failure of these struggles are examined and placed in historical context.

**SOC 3252. Women in Muslim Society.** (IP; 4 cr; prereq 1101 or Anth 1111; spring, offered periodically)

The cultures and social statuses of women in several Muslim countries are examined and placed in their political, economic, and religious contexts.

**SOC 3403. Sociological Theory.** (4 cr; prereq 1101; 4 adtl cr in Soc recommended; fall, every year)

Survey of major developments in sociological theory, with attention to both classical and contemporary variants. Emphasis on sociological ideas in relation to the principal intellectual currents of European society, American society, and non-Western thought.

**SOC 3601. Social Justice and Human Rights in Latin America.** (IP; 4 cr; =[ANTH 3601]; prereq 1101 or Anth 1111 or #; fall, every year)

Same as Anth 3601. Examination of social, economic, and political transformations in Latin America with an emphasis on social justice and human rights. Critical approaches to understand U.S.-Latin American relations, labor struggles, rebellions to define alternative development, indigenous resistance to encroachment on resources and ways of life, civil war and genocide, and efforts to create a more environmental and socially sustainable development.

**SOC 3602. Women in Latin America.** (IP; 4 cr; =[ANTH 3602]; prereq 1101 or Anth 1111 or #; spring, every year)

Same as Anth 3602. Study of the social, economic, and political positions of women in Latin American countries. Topics include class and ethnic differences, women in the labor force, and women's participation in political movements through the lens of feminist theory.

**SOC 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

Individualized on–or off-campus research project or other learning activity not covered in the regular Sociology curriculum. Topic determined by the student and instructor.

**SOC 4991. Sociology Independent Project Seminar.** (4 cr; =[SOC 4902, SOC 4901]; prereq 3103, 3403; spring, every year)

A capstone seminar to guide sociology majors in the completion of an independent study project, including selection and definition of a research project, designing and planning its execution, developing a literature review and bibliography, applying relevant theoretical perspectives to research materials, and organizing and writing a research paper.

**SOC 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

Individualized on–or off-campus research project or other learning activity not covered in the regular Sociology curriculum. Topic determined by the student and instructor.

## Spanish (SPAN)

### *Division of the Humanities*

Spanish is spoken by many people--more than 28 million in the U.S., 132,000 in Minnesota, and more than 300,000,000 worldwide. With a rich and diverse history, it is also a language essential to the contemporary world in areas such as education, business, health care, international relations, and law. The Spanish discipline offers courses that emphasize the richness and diversity of Hispanic culture, and prepares students with a



range of linguistic and critical skills applicable to a wide variety of potential careers or further advanced study in a range of fields.

**Objectives**—Spanish curriculum offers coursework in Hispanic cultures, languages, literatures, and films. The courses are designed to help students develop critical insight into the philosophies and values of other cultures, proficiency in a second language, and sensitivity toward literature and film that reflect the experiences of the Spanish-speaking world. The curriculum accommodates liberal arts students interested in a cross-cultural perspective, language study, secondary school teaching, working for nonprofit organizations and social services, or preparation for graduate study in Spanish and related fields.

Upon the successful completion of the Spanish major (in addition to participation in a study abroad experience to a Spanish-speaking country and to engagement in outreach activities widely available across campus), students should be able to:

- \* Recognize and develop strategies to support and improve their Spanish language proficiencies in reading, writing, speaking and listening;
- \* Refine their cross-cultural and intercultural awareness;
- \* Expand their critical thinking, analytical competencies and problem solving skills;
- \* Discover and critically evaluate the traditions, philosophies, values, artistic expressions, and histories of the cultures of Spain and Latin America;
- \* Design and conduct in-depth, sustained, analytical research in Spanish.

## STUDY ABROAD

In light of today's increasingly interdependent world, the UMM Spanish faculty endorses study abroad, in combination with a Spanish major or minor, as the most effective means by which to

- \* improve language abilities
- \* broaden academic horizons
- \* globalize one's world view
- \* expand career opportunities
- \* advance cross-cultural and problem-solving skills
- \* gain confidence in oneself personally and professionally

## ADVISING FOR THE SPANISH MAJOR

It is strongly recommended that students majoring or minoring in Spanish meet with a Spanish faculty member to plan for a timely and successful completion of their program, even if their primary academic adviser is in another discipline.

## Spanish Major

Students must complete Span 1001 and Span 1002 or equivalent previous language experience (e.g. placement exam, transfer credit) required to take intermediate Spanish before beginning the major.

No grades below C–are allowed. Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

A foreign study experience, regular use of the Language Teaching Center, and participation in outreach and educational activities such as the weekly Conversation Table (la Mesa de conversacion), the Jane Addams School of Democracy and the Community ESL program are strongly recommended to enhance language skills and cultural competency. Latin American Area Studies courses are also recommended as a complement to courses in the Spanish discipline.

Students majoring in Spanish are encouraged to take at least one year of instruction in another foreign language.

## Required Courses

- SPAN 2001–Intermediate Spanish I [IP] (4 cr)
- SPAN 2002–Intermediate Spanish II [IP] (4 cr)
- SPAN 3011–Conversation, Composition, and Culture [IP] (2 cr)
- SPAN 3012–Spanish Grammar in Practice [IP] (2 cr)
- SPAN 3111–Readings in Spanish I [HUM] (2 cr)
- SPAN 3112–Readings in Spanish II [HUM] (2 cr)
- SPAN 3211–Literature and Culture of Latin America [HUM] (4 cr)
- SPAN 3212–Literature and Culture of Spain [HUM] (4 cr)
- SPAN 4001–Research Symposium [HUM] (4 cr)

## Elective Courses

Take 12 or more credits from the following:

- SPAN 3651–Seminar: Miguel de Cervantes Saavedra's "El ingenioso hidalgo Don Quijote de la Mancha" [HUM] (4 cr)
- SPAN 3654–Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature [HUM] (4 cr)
- SPAN 3681–Seminar: Romanticism and Revolution in 19th-Century Spain [HUM] (4 cr)
- SPAN 3682–Seminar: Realism and Reform in 19th-Century Spain [HUM] (4 cr)
- SPAN 3683–Seminar: Modernity and Identity in Spain, 1900-1930 [HUM] (4 cr)
- SPAN 3684–Seminar: Hispanic Film [HUM] (4 cr)
- SPAN 3685–Seminar: Slavery and Abolition in Cuban Literature and Culture [IP] (4 cr)
- SPAN 3686–Seminar: Writing History in Spanish American Literature [HUM] (4 cr)
- SPAN 3687–Seminar: Afro-Hispanic Literature and Culture [HDIV] (4 cr)
- SPAN 3688–Seminar: Literature and Gender in Nineteenth-Century Spain [HUM] (4 cr)

## Spanish Minor

Students must complete Span 1001 and Span 1002 or equivalent previous language experience (e.g. placement exam, transfer credit) required to take intermediate Spanish before beginning the minor.

A foreign study experience, regular use of the Language Teaching Center, and participation in outreach and educational activities such as the weekly Conversation Table (la Mesa de conversacion), the Jane Addams School of Democracy and the Community ESL program are strongly recommended to enhance language skills and cultural competency. Latin American Area Studies courses are also recommended as a complement to courses in the Spanish discipline.

No grades below C–are allowed. Courses may not be taken S-N, unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

## Required Courses

- SPAN 2001–Intermediate Spanish I [IP] (4 cr)
- SPAN 2002–Intermediate Spanish II [IP] (4 cr)
- SPAN 3011–Conversation, Composition, and Culture [IP] (2 cr)
- SPAN 3012–Spanish Grammar in Practice [IP] (2 cr)
- SPAN 3111–Readings in Spanish I [HUM] (2 cr)
- SPAN 3112–Readings in Spanish II [HUM] (2 cr)
- SPAN 3211–Literature and Culture of Latin America [HUM] (4 cr)
- SPAN 3212–Literature and Culture of Spain [HUM] (4 cr)

## Elective Courses

Take 8 or more credits from the following:

- SPAN 3651–Seminar: Miguel de Cervantes Saavedra's "El ingenioso hidalgo Don Quijote de la Mancha" [HUM] (4 cr)
- SPAN 3654–Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature [HUM] (4 cr)
- SPAN 3681–Seminar: Romanticism and Revolution in 19th-Century Spain [HUM] (4 cr)
- SPAN 3682–Seminar: Realism and Reform in 19th-Century Spain [HUM] (4 cr)
- SPAN 3683–Seminar: Modernity and Identity in Spain, 1900-1930 [HUM] (4 cr)

- SPAN 3684—Seminar: Hispanic Film [HUM] (4 cr)  
 SPAN 3685—Seminar: Slavery and Abolition in Cuban Literature and Culture [IP] (4 cr)  
 SPAN 3686—Seminar: Writing History in Spanish American Literature [HUM] (4 cr)  
 SPAN 3687—Seminar: Afro-Hispanic Literature and Culture [HDIV] (4 cr)  
 SPAN 3688—Seminar: Literature and Gender in Nineteenth-Century Spain [HUM] (4 cr)

## Spanish Course Descriptions

**SPAN 1001. Beginning Spanish I.** (4 cr; fall, summer, every year)  
 Development of basic skills of Spanish (reading, speaking, writing, listening) and an introduction to the cultural contexts of Latin America and Spain.

**SPAN 1002. Beginning Spanish II.** (FL; 4 cr; prereq 1001 or placement or #; fall, spring, summer, every year)  
 Continuation of the sequence beginning with 1001.

**SPAN 1003. Accelerated Beginning Spanish.** (FL; 4 cr; prereq placement or #; fall, spring, every year)  
 An accelerated introductory Spanish course for students with prior experience and appropriate placement exam score to allow completion of the FL GER requirement with one semester of coursework. Development of basic skills of Spanish (reading, speaking, writing, listening) and an introduction to the cultural contexts of Latin America and Spain.

**SPAN 1801. Hispanic Culture Through Cinema.** (IC; 4 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)  
 An introduction to contemporary films from Spain and Latin America, showcasing innovative filmmakers from the Hispanic world, their representations of Hispanic societies through film, and their relationships to other international cinemas, with an emphasis on the medium as an art form rather than a commercial proposition.

**SPAN 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**SPAN 2001. Intermediate Spanish I.** (IP; 4 cr; prereq 1002 or 1003 or placement or #; fall, every year)  
 Emphasizes the continued development of oral expression, vocabulary building, spelling, grammar, reading, and composition through the use of authentic materials such as short films and news features, cultural readings, literary selections, and contemporary music that strengthen students' proficiency in Spanish and their understanding of Hispanic cultures.

**SPAN 2002. Intermediate Spanish II.** (IP; 4 cr; prereq 2001 or #; spring, every year) Continuation of the sequence beginning with 2001.

**SPAN 2121. Associated Languages: Intensive Portuguese.** (IP; 4 cr; prereq 2002 or Fren 2002 or #; fall, spring, offered periodically)  
 Intensive, accelerated study of the basic skills of Brazilian Portuguese (reading, writing, listening, and speaking) with emphasis on oral competency.

**SPAN 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**SPAN 3011. Conversation, Composition, and Culture.** (IP; 2 cr; prereq 2002 or #; fall, every year)  
 Practice in effective oral and written communication in Spanish for advanced students, with an emphasis on the diversity of contemporary Hispanic cultures and a review of basic grammatical concepts.

**SPAN 3012. Spanish Grammar in Practice.** (IP; 2 cr; prereq 3011 or #; spring, every year)  
 A review of advanced Spanish grammar, with emphasis on areas of concern and challenge for the non-native speaker, and on strengthening academic writing skills in Spanish.

**SPAN 3111. Readings in Spanish I.** (HUM; 2 cr; prereq 3011 or #; fall, every year)  
 Introduction to representative works of contemporary Hispanic literature from diverse genres and cultural contexts, with emphasis on strategies for comprehension and interpretation.

**SPAN 3112. Readings in Spanish II.** (HUM; 2 cr; prereq 3012, 3111 or #; spring, every year)  
 Further examination of representative works of Hispanic literature from diverse genres, time periods, and cultural contexts, with emphasis on literary concepts and terminology, analysis, research and writing practices, and interpretation.

**SPAN 3211. Literature and Culture of Latin America.** (HUM; 4 cr; prereq 3012, 3112, or #; fall, every year)  
 Study of important exemplary works of Latin American literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

**SPAN 3212. Literature and Culture of Spain.** (HUM; 4 cr; prereq 3012, 3112, or #; spring, every year)  
 Study of important exemplary works of Spanish (peninsular) literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

**SPAN 3651. Seminar: Miguel de Cervantes Saavedra's "El ingenioso hidalgo Don Quijote de la Mancha".** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)  
 Study of Miguel de Cervantes Saavedra's novel "El ingenioso hidalgo Don Quijote de la Mancha" in light of its socio-historical context.

**SPAN 3654. Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)  
 The theme of sex, love, and marriage in Golden Age Spanish Literature through prose, poetry, and theatre of the Golden Age (XVI–XVII centuries) Spain. Consideration of the gender relations and gender politics reflected in the works and the socio-historical context in which these works were produced.

**SPAN 3681. Seminar: Romanticism and Revolution in 19th-Century Spain.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)  
 Study of representative texts (prose and poetry) from the first half of the 19th century in Spain, with emphasis on the expression of the Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservatism.

**SPAN 3682. Seminar: Realism and Reform in 19th-Century Spain.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)  
 Study of representative texts (novels, stories, and essays) from the second half of the 19th century in Spain, with emphasis on the rise of realism as an exploration of the socio-political reality of the era and the need for reform. The focus is on general trends in Western cultures (e.g., industrialization, positivism, secularization).

**SPAN 3683. Seminar: Modernity and Identity in Spain, 1900-1930.** (HUM; 4 cr; prereq 3012, 3112, or #; fall, offered periodically)  
 Study of representative texts (prose and poetry) from the early decades of the 20th century in Spain with particular emphasis on their responses to changes brought by modernity: advancing technology, modern psychology, political experimentation, spiritual exploration, and artistic innovation.

**SPAN 3684. Seminar: Hispanic Film.** (HUM; 4 cr; prereq 3012, 3112 or #; spring, offered periodically)  
 View, study, and discuss relevant Hispanic films from Spain, Latin America, and the U.S.A. Consider films' cinematic techniques and their specific socio-cultural and socio-political contexts.

**SPAN 3685. Seminar: Slavery and Abolition in Cuban Literature and Culture.** (IP; 4 cr; prereq 3012, 3112, or #; fall, spring, offered periodically)  
 A study of the major texts surrounding Cuban slavery from the 1812 Aponte slave rebellion to independence from Spain in 1898. How did 19th-century writers depict Cuban slave society? What was the relationship between literature, abolition, and independence?

**SPAN 3686. Seminar: Writing History in Spanish American Literature.** (HUM; 4 cr; prereq 3011, 3012, or #; fall, spring, offered periodically)  
 A study of 20th- and 21st-century Latin American historical novels and the colonial and 19th-century texts on which they are based. How and why is the past mobilized to meet the needs of the present? How do historical events continue to haunt the present day?

**SPAN 3687. Seminar: Afro-Hispanic Literature and Culture.** (HDIV; 4 cr; prereq 3011, 3012, or #; fall, spring, offered periodically)  
 An overview of the literature and culture of peoples of African descent in Spanish America from the colonial period to present day. How have Afro-Hispanics been marginalized from national projects in Spanish America?

To what extent and under what circumstances has the group been included? How have Afro-Hispanic writers responded to larger culture?

**SPAN 3688. Seminar: Literature and Gender in Nineteenth-Century Spain.** (HUM; 4 cr; prereq 3012, 3112 or #; fall, offered periodically)  
An examination of 19th-century Spanish literature with primary emphasis on gender representation and construction. Readings include both canonical and lesser known works, by both male and female writers, that reflect an ongoing dialogue regarding traditional and shifting notions of gender identity and relations in Spain at the time.

**SPAN 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**SPAN 4001. Research Symposium.** (HUM; 4 cr; A-F only; prereq #; spring, every year)  
A capstone experience for majors, consisting of an introduction to research methods and critical approaches to literature, as well as development of an independent research project and presentation. Spanish majors are required to complete a minimum of 16 of the 20 required credits at the 32xx and 36xx levels prior to registering for Span 4001. It is recommended to have all 20 of these credits completed prior to taking Span 4001.

**SPAN 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Sport Management

### Division of Education

This is an interdisciplinary program housed in the Division of Education. The program is administered by the sport management coordinator. Core courses in sport studies and athletics and in management build a foundation of knowledge and skills related to managing, planning, organizing, budgeting, leading, marketing, and evaluating within the context of an organization or department whose primary product or service is related to sport or physical activity. Carefully selected elective courses prepare students for graduate study (e.g., in business, law, or sport management) or a career in the sport or fitness industry (e.g., athletic director, sport agent, sport marketing, sport media, and managing professional and amateur sport organizations, parks and recreation areas, or sport governing bodies).

### Sport Management Major

No grades below C- are allowed. Required courses including electives must be taken A-F, unless they are offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

#### Foundational Courses

PHIL 2112-Professional Ethics [E/CR] (4 cr)  
STAT 1601-Introduction to Statistics [M/SR] (4 cr)  
or STAT 2601-Statistical Methods [M/SR] (4 cr)  
CMR 1052-Introduction to Public Speaking [E/CR] (2 cr)  
or CMR 1062-Introduction to Interpersonal and Group Communication [HUM] (4 cr)

#### Sport Management Core

ECON 1111-Principles of Microeconomics [SS] (4 cr)  
MGMT 2101-Principles of Accounting I (4 cr)  
MGMT 3171-Leadership in Organizations [SS] (2 cr)  
SSA 2302-Introduction to Sport Management (2 cr)  
SSA 2401-Sociological Aspects of Sports [SS] (2 cr)  
SSA 2402-Psychological Aspects of Sports [SS] (2 cr)  
SSA 3101-Sport Industry Analysis [SS] (4 cr)  
SSA 4101-Planning and Programming of Athletic Facilities (4 cr)  
SSA 4102-Organization and Administration of Athletics and Recreation (4 cr)  
SSA 4201-Sport Governance: Legal and Ethical Issues [E/CR] (4 cr)

### Elective Courses

Take an additional 12 or more credits from the courses listed below. At least 8 credits must be in management at the 3xxx level or above.

Students interested in earning a management minor should see the management section of the catalog for additional information.

*Take 12 or more credits from the following:*

*Take 8 or more credits from the following:*

MGMT 3101-Financial Management [SS] (4 cr)  
MGMT 3123-Managerial Economics [SS] (4 cr)  
MGMT 3133-Managerial Accounting (4 cr)  
MGMT 3141-Business Law I (2 cr)  
MGMT 3142-Business Law II (2 cr)  
MGMT 3151-Human Resources Management I [E/CR] (2 cr)  
MGMT 3152-Human Resources Management II [HDIV] (2 cr)  
MGMT 3161-Labor Management Relations I [E/CR] (2 cr)  
MGMT 3162-Labor Management Relations II [SS] (2 cr)  
MGMT 3201-Marketing Principles and Strategy [SS] (4 cr)  
MGMT 3221-Management and Organization Theory [SS] (4 cr)  
MGMT 3513-Negotiation (4 cr)  
MGMT 3701-Organizational Behavior [SS] (4 cr)

*Take at most 4 credits from the following:*

BIOL 2102-Human Anatomy (3 cr)  
ECON 4101-Labor Economics I [HDIV] (2 cr)  
ECON 4102-Labor Economics II (2 cr)  
MGMT 2102-Principles of Accounting II (2 cr)  
PSY 2001-Research Methods in Psychology [SS] (4 cr)  
SOC 3103-Research Methodology in Sociology (4 cr)  
PSY 3701-Organizational Behavior [SS] (4 cr)  
SSA 2102-Human Anatomy (3 cr)  
SSA 2111-Kinesiology [SCI] (2 cr)  
SSA 2112-Exercise Physiology (2 cr)  
SSA 3172-Leadership in Sport Organizations [SS] (2 cr)  
SSA 3201-Coaching Practicum (1 cr)

### Sport Management Minor

No grades below C- are allowed. Required courses including electives must be taken A-F, unless they are offered S-N only.

#### Sport Management Core

ECON 1111-Principles of Microeconomics [SS] (4 cr)  
MGMT 2101-Principles of Accounting I (4 cr)  
SSA 2302-Introduction to Sport Management (2 cr)  
SSA 2401-Sociological Aspects of Sports [SS] (2 cr)  
SSA 2402-Psychological Aspects of Sports [SS] (2 cr)  
SSA 3101-Sport Industry Analysis [SS] (4 cr)  
SSA 4101-Planning and Programming of Athletic Facilities (4 cr)  
or SSA 4102-Organization and Administration of Athletics and Recreation (4 cr)

#### Elective Courses

Take four additional credits from MGMT 3xxx or above.

Students interested in earning a management minor should see the management section of the catalog for additional information.

*Take 4 or more credits from the following:*

MGMT 3101-Financial Management [SS] (4 cr)  
MGMT 3123-Managerial Economics [SS] (4 cr)  
MGMT 3133-Managerial Accounting (4 cr)  
MGMT 3141-Business Law I (2 cr)  
MGMT 3142-Business Law II (2 cr)  
MGMT 3151-Human Resources Management I [E/CR] (2 cr)  
MGMT 3152-Human Resources Management II [HDIV] (2 cr)  
MGMT 3161-Labor Management Relations I [E/CR] (2 cr)  
MGMT 3162-Labor Management Relations II [SS] (2 cr)  
MGMT 3171-Leadership in Organizations [SS] (2 cr)  
MGMT 3201-Marketing Principles and Strategy [SS] (4 cr)  
MGMT 3221-Management and Organization Theory [SS] (4 cr)  
MGMT 3513-Negotiation (4 cr)  
MGMT 3701-Organizational Behavior [SS] (4 cr)

## Sport Management Course Descriptions

**BIOL 2102. Human Anatomy.** (3 cr; =SSA 2102]; prereq soph; no elective cr for biol majors or minors; fall, every year)  
Same as SSA 2102. Structure of human systems at their organ and cellular level. (two 65-min lect, one 120-min lab)

**CMR 1052. Introduction to Public Speaking.** (E/CR; 2 cr; fall, spring, every year)  
Activities, assignments, and exercises related to public address/public speaking in a variety of speech settings.

**CMR 1062. Introduction to Interpersonal and Group Communication.** (HUM; 4 cr; fall, every year)  
Activities, assignments, and exercises related to interpersonal and group communication in private and public settings including dating, family, and work.

**ECON 1111. Principles of Microeconomics.** (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)  
Study of scarce resource allocation in a market economy. Supply and demand, consumer theory, theory of the firm, market structure, pricing of factors of production, income distribution and the role of government.

**ECON 4101. Labor Economics I.** (HDIV; 2 cr; prereq 3201 or #; fall, every year)  
Wage and employment determination. Distribution of earnings and earnings inequality by race and sex. Labor supply applications.

**ECON 4102. Labor Economics II.** (2 cr; prereq 3201 or #; fall, every year)  
Functioning and performance of the labor market. Heterodox explanations of labor market behavior. Labor demand applications.

**MGMT 2101. Principles of Accounting I.** (4 cr; fall, every year)  
An introductory course in accounting principles and practices. The students develop an understanding of both the conceptual and procedural framework of the accounting processes. Emphasis is placed on the preparation and communication of accounting information and the financial statements for a proprietorship.

**MGMT 2102. Principles of Accounting II.** (2 cr; prereq 2101; spring, every year)  
A continuation of Principles of Accounting I. Students develop an understanding of the issues unique to partnerships, corporations, and organizational financing. Cash flow statements and performance analysis are also emphasized.

**MGMT 3101. Financial Management.** (SS; 4 cr; prereq 2102, Econ 1111, Econ 1112, Stat 1601; fall, every year)  
Fundamental theories of financial management, their applications, and their limitations in solving real business problems. Emphasis on financial analysis, valuation of future cash flows, capital budgeting, risk and return, cost of capital.

**MGMT 3123. Managerial Economics.** (SS; 4 cr; prereq 2101, Econ 1111, Math 1101 or Math 1021, Stat 1601 or Stat 2601 or #; no credit for students who have received credit for Econ 3201; spring, every year)  
Development of the basic concepts of the microeconomic theories of consumer behavior, the firm, and market structure, in application to managerial decision-making contexts in the operation and control of business and non-profit organizations.

**MGMT 3133. Managerial Accounting.** (4 cr; prereq 2102; fall, spring, offered periodically)  
Managerial accounting is designed to help managers assess needed information to carry out three essential functions in an organization: planning operations, controlling activities, and making decisions. The emphasis of this course is placed on cost behaviors, various product costing methods, cost-volume-profit relationships, budgeting and control through standard costs, and other quantitative techniques used by management.

**MGMT 3141. Business Law I.** (2 cr; prereq 2101 or #; spring, every year)  
Law as it relates to the commercial world, including the legal environment, federal regulation, contracts, intellectual property law, business torts, and white collar crimes.

**MGMT 3142. Business Law II.** (2 cr; prereq 2101 or #; spring, every year)  
Law as it relates to the commercial world, including the mortgage foreclosure crisis, business organizations, corporations, secured transactions, bankruptcy, agency and securities regulations.

**MGMT 3151. Human Resources Management I.** (E/CR; 2 cr; prereq 2101 or #; fall, every year)  
An introduction to the functional areas of human resource management through the use of case studies. Topics include legal issues, planning, recruitment, training, evaluation, compensation, and benefits.

**MGMT 3152. Human Resources Management II.** (HDIV; 2 cr; prereq 3151 or #; fall, every year)  
Topics in human resource management: evaluating employee performance, training, safety, labor relations, international human resource management.

**MGMT 3161. Labor Management Relations I.** (E/CR; 2 cr; prereq Econ 1111 or #; fall, spring, offered periodically)  
Historical development of labor relations and the legal framework governing collective bargaining. Labor relations law reform. Case studies from labor relations law.

**MGMT 3162. Labor Management Relations II.** (SS; 2 cr; prereq 3161 or #; spring, offered periodically)  
Issues in labor-management negotiation, grievances, wages and economic security plans, public policies toward collective bargaining. Case studies from labor arbitration.

**MGMT 3171. Leadership in Organizations.** (SS; 2 cr; prereq Stat 1601 or Stat 2601 or #; fall, every year)  
Leadership is the ability to influence a group of people towards a goal. Examination of leadership qualities and theories as they apply to leading an organization. Ethics, social responsibility, team work, motivation, and conflict resolution skills from the perspective of a leader. International and culturally diverse aspects of leadership and leadership development. Students have the opportunity to practice leadership skills during the course.

**MGMT 3201. Marketing Principles and Strategy.** (SS; 4 cr; prereq 2102, Stat 1601 or #; spring, offered periodically)  
Basic factors affecting policy and strategy issues in marketing. Economic, legal, behavioral, environmental, competitive, and technological factors as they affect product, pricing, promotion, and marketing-channel decisions.

**MGMT 3221. Management and Organization Theory.** (SS; 4 cr; prereq 2101, Econ 1111 or #; fall, spring, offered periodically)  
Theory, research, and practice of management. Planning, organizing, leading, controlling. Emphasizes goals, policies, procedures. Factors and human relationships necessary to achieve organizational success. Organizational structure/culture. Changing environment in which businesses operate.

**MGMT 3513. Negotiation.** (4 cr; =[PSY 3513]; prereq 3221 or Psy 3501 or Psy/Mgmt 3701; spring, offered periodically)  
Same as Psy 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

**MGMT 3701. Organizational Behavior.** (SS; 4 cr; =[PSY 3701]; prereq Stat 1601 or Stat 2601, jr or sr; fall, spring, offered periodically)  
Same as Psy 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

**PHIL 2112. Professional Ethics.** (E/CR; 4 cr; fall, every year)  
A critical examination of moral issues that arise in a person's professional life. Possible topics include affirmative action, autonomy in the workplace, ethical issues in advertising, corporate responsibility, coercive wage offers, distributive justice, and sexual harassment. Issues concerning race, gender, and women are included in selected modules.

**PSY 2001. Research Methods in Psychology.** (SS; 4 cr; prereq 1051, Stat 1601 or Stat 2601, psy major or minor, or #; fall, spring, every year)  
Design, analysis, and interpretation of research in psychology. Instruction on different research techniques and ethics in research. Students conduct, analyze, and evaluate empirical research and gain experience preparing APA-style research reports. Includes laboratory/discussion sessions.

**PSY 3701. Organizational Behavior.** (SS; 4 cr; =[MGMT 3701]; prereq Stat 1601 or Stat 2601, jr or sr; fall, offered periodically)  
Same as Mgmt 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

**SOC 3103. Research Methodology in Sociology.** (4 cr; prereq 1101; fall, every year)

An introduction to research procedures used in sociology. Developing a research design and applying it to a concrete problem. Questions of validity and reliability examined in the context of research projects developed by the students.

**SSA 2102. Human Anatomy.** (3 cr; =[BIOL 2102]; prereq soph; fall, every year)

Same as Biol 2102. Structure of human systems at their organ and cellular levels. (two 65-min lect, one 120-min lab)

**SSA 2111. Kinesiology.** (SCI; 2 cr; prereq 2102; fall, every year)

Scientific principles of movement and tissue responses to force; analysis of basic movement in sports and other physical activities.

**SSA 2112. Exercise Physiology.** (2 cr; fall, every year)

Human physiological adaptations resulting from activity/exercise.

**SSA 2302. Introduction to Sport Management.** (2 cr; A-F only; fall, spring, every year)

Provides students with an overview of and a foundation in sport management. Topics include the history of sport management, the relevance of managerial concepts to sport, typical settings for sport managers, areas of study within sport management, sustainability in sport, and globalization and sport, among others.

**SSA 2401. Sociological Aspects of Sports.** (SS; 2 cr; spring, every year)

Sociological aspects of physical education, sports, and recreation and the implications this knowledge has for effective teaching, coaching, and athletic training.

**SSA 2402. Psychological Aspects of Sports.** (SS; 2 cr; prereq 2401; spring, every year)

Psychological aspects of physical education, sports, and recreation and the implications this knowledge has for effective teaching, coaching, and athletic training.

**SSA 3101. Sport Industry Analysis.** (SS; 4 cr; prereq 2302, Stat 1601 or Stat 2601 or #; spring, every year)

An examination of the rapidly developing sports industry from a promotional and sales management perspective. Focus on sport promotion, sport consumers, sales, sponsorship, licensing, and e-commerce.

**SSA 3172. Leadership in Sport Organizations.** (SS; 2 cr; A-F only; prereq 2302, Mgmt 3171; no cr for students who have received cr for Mgmt 3172; fall, offered periodically)

Examination of theories and case studies of organizational leadership within sport. Students learn about additional theories and models of sport leadership and practice and develop their leadership skills.

**SSA 3201. Coaching Practicum.** (1 cr; S-N only; prereq #; fall, spring, every year)

Supervised field experience in coaching, consisting of no fewer than 40 hours.

**SSA 4101. Planning and Programming of Athletic Facilities.** (4 cr; prereq 3101; spring, every year)

Theories/techniques in administration/ management of sport enterprises including the steps in planning/building facilities for athletics, physical education, and sport for college, professional, and public use.

**SSA 4102. Organization and Administration of Athletics and Recreation.** (4 cr; prereq 3101; fall, every year)

Comprehensive analysis of organization and management of athletics and recreation.

**STAT 1601. Introduction to Statistics.** (M/ SR; 4 cr; prereq high school higher algebra; fall, spring, every year)

Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

**STAT 2601. Statistical Methods.** (M/SR; 4 cr; prereq Math 1101 or Math 1021; fall, every year)

Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical

methods; linear regression and correlation, ANOVA, nonparametric statistics, statistical quality control, use of statistical computer packages.

## Sport Studies and Athletics (SSA)

### Division of Education

**Objectives**—The Sport Studies and Athletics discipline is designed to provide students with the knowledge and skills necessary for overall fitness/wellness and coaching. It helps students develop and maintain a healthy lifestyle and prepares them for a lifetime of service as sports management and coaching professionals. In addition, the Sport Studies and Athletics discipline contributes to the Sport Management major, an interdisciplinary major that draws from SSA, Management, and other disciplines. For more information, see Sport Management Major.

The statement, "Varsity coaching requirements completed," is added to the transcript of students who complete:

### Coaching

SSA 1101—First Aid

SSA 2102—Human Anatomy

SSA 2111—Kinesiology

SSA 2112—Exercise Physiology

SSA 2121—Prevention and Care of Injuries

SSA 3201—Coaching Practicum

### One of the following courses:

SSA 2201—Baseball Coaching

SSA 2202—Basketball Coaching

SSA 2203—Football Coaching

SSA 2204—Softball Coaching

SSA 2205—Track and Field Coaching

SSA 2206—Volleyball Coaching

SSA 2208—Soccer Coaching

## Sport Studies and Athletics Course Descriptions

**SSA 1051. Fitness for Life.** (2 cr; fall, spring, every year)

Factors associated with a positive lifestyle, assessment of each individual's current wellness status, and development of a personal lifetime program for improving one's quality of life.

**SSA 1052. Societal Issues in Health and Wellness.** (SS; 2 cr; fall, spring, every year)

A study of how perceptions of society's health and wellness issues affect our individual health/ fitness choices.

**SSA 1101. First Aid.** (1 cr; fall, spring, every year)

Lectures, demonstrations, practical work in emergencies and first aid. Emphasis on accident prevention. Completion of the course prepares students for National Safety Council First Aid and CPR Certification.

**Skills Courses:** *The lifetime fitness skills development courses carry 0.5 credit each, are graded S-N only, and are repeatable to a limited number of credits. No more than 4 credits in SSA 12xx skills may be applied to the 120-credit degree requirement.*

**SSA 1213. Golf.** (0.5 cr [max 1 cr]; S-N only; fall, every year)

Introductory instruction in the skills and techniques of golf.

**SSA 1219. Strength Training.** (0.5 cr [max 1 cr]; S-N only; fall, spring, every year)

Introductory instruction in the skills and techniques of strength training.

**SSA 1225. Wellness Skills: R.A.D.-Basic and Advanced Self**

**Defense System.** (1 cr [max 2 cr]; S-N only; fall, spring, every year)

A hands-on comprehensive program of realistic, self-defense tactics and techniques for women. The only nationally approved self-defense class by the International Association of College Law Enforcement Administrators. Class curriculum is centered around physical self-defense techniques and situational awareness. The advanced section of the class builds on basic techniques and offers more options for increasing awareness and providing a deeper understanding of one's potential.

**SSA 1231. Beginning Taekwondo.** (0.5 cr [max 1 cr]; fall, spring, every year)

Philosophy of the martial arts. Basic stances and blocking, kicking, and striking techniques, terminology, footwork and sparring fundamentals.

**SSA 1233. Advanced Taekwondo.** (0.5 cr [max 1 cr]; prereq 1231 or #; fall, spring, every year)  
Advanced stances and blocking, kicking, and striking techniques, terminology, footwork and sparring fundamentals.

**Varsity Athletics:** *All varsity athletics courses carry 0.5 credit, are repeatable to a total of 2 credits, and are graded S-N only. No more than 4 credits in SSA 1401-1412 may be applied to the 120-credit degree requirement.*

**SSA 1401. Varsity Baseball (M).** (0.5 cr [max 2 cr]; S-N only; spring, every year)

**SSA 1402. Varsity Basketball.** (0.5 cr [max 2 cr]; S-N only; spring, every year)

**SSA 1403. Varsity Cross Country.** (0.5 cr [max 2 cr]; S-N only; fall, every year)

**SSA 1404. Varsity Football (M).** (0.5 cr [max 2 cr]; S-N only; fall, every year)

**SSA 1405. Varsity Golf.** (0.5 cr [max 2 cr]; S-N only; fall, every year)

**SSA 1406. Varsity Softball (W).** (0.5 cr [max 2 cr]; S-N only; spring, every year)

**SSA 1407. Varsity Tennis.** (0.5 cr [max 2 cr]; S-N or Audit; spring, every year)

**SSA 1408. Varsity Track and Field.** (0.5 cr [max 2 cr]; S-N only; spring, every year)

**SSA 1410. Varsity Volleyball (W).** (0.5 cr [max 2 cr]; S-N only; fall, every year)

**SSA 1411. Varsity Soccer.** (0.5 cr [max 2 cr]; S-N only; fall, every year)

**SSA 1412. Varsity Swimming & Diving (W).** (0.5 cr [max 2 cr]; S-N only; fall, every year)

**SSA 1801. Mind and Body: Mental Skills and Martial Arts.** (1C; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, spring, offered periodically)

Mental skills such as stress management, imagery, and concentration have been practiced for centuries by martial artists and more recently by elite performers in a variety of fields (e.g., athletics, artistic and dramatic performance, medicine, and business). These skills and more are introduced through readings, analyzed during discussions, emphasized via the practice of martial arts skills and techniques, and applied to students' individual needs. Readings come from current sport psychology literature as well as traditional Asian martial arts passages. Students engage in physical activity.

**SSA 1802. The Olympics and Social Change: History of Women and Minorities in the Olympics.** (1C; 2 cr; prereq new college student in their first semester of enrollment at UMM; fall, offered periodically)

Study the increasing diversity of the Olympics while focusing on select stories aligning with historical social movements. Emphasis is placed on the 1936, 1960, and 1968 Olympics while providing a broad overview of the history of the Olympics and its social implications.

**SSA 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**SSA 2102. Human Anatomy.** (3 cr; =BIOL 2102); prereq soph; fall, every year)

Same as Biol 2102. Structure of human systems at their organ and cellular levels. (two 65-min lect, one 120-min lab)

**SSA 2111. Kinesiology.** (SCI; 2 cr; prereq 2102; fall, every year)  
Scientific principles of movement and tissue responses to force; analysis of basic movement in sports and other physical activities.

**SSA 2112. Exercise Physiology.** (2 cr; fall, every year)  
Human physiological adaptations resulting from activity/exercise.

**SSA 2121. Prevention and Care of Injuries.** (4 cr; prereq 2111; spring, every year)

Introduction to safety measures, care, prevention, and rehabilitation of injuries in sports and other physical activities. (three 65-min lect, one 65-min lab)

**SSA 2201. Baseball Coaching.** (2 cr; spring, odd years)  
History, psychology, and theory of the game, techniques of coaching each position, rules, batting, practice and game organization, strategy, officiating.

**SSA 2202. Basketball Coaching.** (2 cr; fall, every year)  
History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules, and techniques of coaching each position.

**SSA 2203. Football Coaching.** (2 cr; fall, every year)  
History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules, techniques of coaching each position.

**SSA 2204. Softball Coaching.** (2 cr; spring, even years)  
History, psychology, and theory of the game, techniques of coaching each position, rules, batting, practice and game organization, strategy, officiating.

**SSA 2205. Track and Field Coaching.** (2 cr; spring, every year)  
History, psychology, and theory of the sports, techniques for all track and field events, methods of coaching, practice and meet organization, strategy, rules, officiating.

**SSA 2206. Volleyball Coaching.** (2 cr; fall, even years)  
History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules.

**SSA 2208. Soccer Coaching.** (2 cr; fall, odd years)  
History, psychology, and theory of the sport, individual techniques, practice and game organization, officiating, rules and strategies.

**SSA 2302. Introduction to Sport Management.** (2 cr; A-F only; fall, spring, every year)  
Provides students with an overview of and a foundation in sport management. Topics include the history of sport management, the relevance of managerial concepts to sport, typical settings for sport managers, areas of study within sport management, sustainability in sport, and globalization and sport, among others.

**SSA 2311. Sports Officiating.** (2 cr; summer, offered periodically)  
Knowledge of the rules, techniques, and mechanics for officiating basketball, baseball, and softball at the high school level.

**SSA 2331. Personal Training Preparation.** (2 cr; S-N only; fall, spring, offered periodically)

Concepts, theory, practice, and research in personal training and conditioning. Basic anatomy and physiology, principles of strength training, overview of training equipment, fitness assessments, designing individual exercise programs, legal liabilities, national certifications, and review of research. Preparation for national certification examinations in the areas of personal training and strength conditioning.

**SSA 2333. The Story of Sports.** (SS; 4 cr; summer, offered periodically)  
Sports have become an important way to view and understand the broad developments of society in the 20th century. Many of these developments have been presented in the form of movies, music, poetry, short stories, novels, and stories handed down through the generations. Study these developments, how they are told through stories, and how sports can be useful for examining 20th century society and culture.

**SSA 2401. Sociological Aspects of Sports.** (SS; 2 cr; spring, every year)  
Sociological aspects of physical education, sports, and recreation and the implications this knowledge has for effective teaching, coaching, and athletic training.

**SSA 2402. Psychological Aspects of Sports.** (SS; 2 cr; prereq 2401; spring, every year)

Psychological aspects of physical education, sports, and recreation and the implications this knowledge has for effective teaching, coaching, and athletic training.

**SSA 2501. Sports in Media I.** (SS; 2 cr; A-F only; spring, every year)  
An introduction to the relationship between the media and sports in America. A broad range of topics include broadcast, print, and social media, as well as promotion and public relations and their roles as vehicles for promoting sports.

**SSA 2502. Sports in Media II.** (SS; 2 cr; A-F only; prereq 2501; spring, every year)

A continuation of Sports in Media I that will dissect and analyze the relationship between sports and media. Topics include the development, organization, and implementation of media tactics and associated historical social, cultural, and legal issues.

**SSA 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**SSA 3101. Sport Industry Analysis.** (SS; 4 cr; prereq 2302, Stat 1601 or Stat 2601 or #; spring, every year)

An examination of the rapidly developing sports industry from a promotional and sales management perspective. Focus on sport promotion, sport consumers, sales, sponsorship, licensing, and e-commerce.

**SSA 3172. Leadership in Sport Organizations.** (SS; 2 cr; A-F only; prereq 2302, Mgmt 3171; no cr for students who have received cr for Mgmt 3172; fall, offered periodically)

Examination of theories and case studies of organizational leadership within sport. Students learn about additional theories and models of sport leadership and practice and develop their leadership skills.

**SSA 3201. Coaching Practicum.** (1 cr; S-N only; prereq #; fall, spring, every year)

Supervised field experience in coaching, consisting of no fewer than 40 hours.

**SSA 3210. Internship in Sport Studies and Athletics.** (1-12 cr [max 24 cr]; S-N only; fall, spring, every year)

An educational experience in a work environment providing field applications for the student's theoretical classroom learning experiences.

**SSA 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**SSA 4101. Planning and Programming of Athletic Facilities.** (4 cr; prereq 3101; spring, every year)

Theories/techniques in administration/ management of sport enterprises including the steps in planning/building facilities for athletics, physical education, and sport for college, professional, and public use.

**SSA 4102. Organization and Administration of Athletics and Recreation.** (4 cr; prereq 3101; fall, every year)

Comprehensive analysis of organization and management of athletics and recreation.

**SSA 4201. Sport Governance: Legal and Ethical Issues.** (E/CR; 4 cr; A-F only; prereq 2401, 2402, 4102; spring, every year)

An integrative capstone for students in sport management. In addition to emphases in legal and ethical issues, it integrates knowledge from key areas of study in sport management. Includes an independent research project and a public presentation.

**SSA 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)

An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Statistics (STAT)

### *Division of Science and Mathematics*

The mission of the discipline is to create and apply statistical methods/techniques for collecting, exploring, analyzing, and communicating qualitative/quantitative information and to disseminate this knowledge through teaching, scholarly activity, and outreach.

Statistics is the science and art of enhancing knowledge in the face of uncertainty by modeling, predictions, and decisions. It is central to solutions of problems in the environment, medicine, law, industry, technology, finance, business, public policy, computing, and science in general. The need for statistics applies to almost every area of our lives.

**Objectives**—The statistics program provides an effective operational knowledge of the theory and methods of statistics and the application of statistical methods in a liberal arts environment. It seeks to enhance students' critical thinking in making judgments based on data and provides students with the basic knowledge and skills to make contributions to modern society. Students learn to communicate and collaborate effectively with people in other fields and, in the process, to understand the substance of these fields. The curriculum prepares students to enter graduate school or pursue careers in statistical fields at research institutions and in the industry.

## Statistics Major

The GPA in these courses must be at least 2.00. Courses may not be taken S-N, unless offered S-N only.

Students planning to pursue graduate work in statistics or biostatistics should complete MATH 2101—Calculus III and consider taking MATH 2202—Mathematical Perspectives and MATH 3211—Analysis for Ph.D. preparation.

### Required Courses

MATH 1101—Calculus I [M/SR] (5 cr)

MATH 1102—Calculus II [M/SR] (5 cr)

STAT 2501—Probability and Stochastic Processes [M/SR] (4 cr)

STAT 2611—Mathematical Statistics [M/SR] (4 cr)

STAT 3601—Data Analysis [M/SR] (4 cr)

STAT 4901—Senior Seminar (1 cr)

STAT 1601—Introduction to Statistics [M/SR] (4 cr)

or STAT 2601—Statistical Methods [M/SR] (4 cr)

### Elective Courses

Take 8 or more credits from the following:

STAT 1993—Directed Study (1.0–5 cr)

STAT 2701—Introduction to Data Science [M/SR] (4 cr)

STAT 2993—Directed Study (1.0–5 cr)

STAT 3501—Survey Sampling [M/SR] (4 cr)

STAT 3611—Multivariate Statistical Analysis [M/SR] (4 cr)

STAT 3993—Directed Study (1.0–5 cr)

STAT 4601—Biostatistics (4 cr)

STAT 4611—Statistical Consulting (4 cr)

STAT 4631—Design and Analysis of Experiments (4 cr)

STAT 4651—Applied Nonparametric Statistics (4 cr)

STAT 4671—Statistical Computing (4 cr)

STAT 4681—Introduction to Time Series Analysis (4 cr)

STAT 4993—Directed Study (1.0–5 cr)

### Additional Elective Courses

Choose from the list below or from courses with faculty approval.

Take 4 or more credits from the following:

CSCI 1201—Introduction to Digital Media Computation [M/SR] (4 cr)

CSCI 1251—Computational Data Management and Manipulation [M/SR] (4 cr)

CSCI 1301—Problem Solving and Algorithm Development [M/SR] (4 cr)

CSCI 1302—Foundations of Computer Science [M/SR] (4 cr)

CSCI 4403—Systems: Data Mining (2 cr)

CSCI 4458—Systems: Bioinformatic Systems (4 cr)

CSCI 4555—Theory: Neural Networks and Machine Learning (4 cr)

ECON 3501—Introduction to Econometrics [M/SR] (4 cr)

MATH 2101—Calculus III [M/SR] (4 cr)

MATH 2111—Linear Algebra [M/SR] (4 cr)

MATH 2202—Mathematical Perspectives [M/SR] (4 cr)

MATH 3221—Real Analysis I (4 cr)

MATH 3401—Operations Research (4 cr)

MATH 3501—Applied Deterministic Modeling for Management Science (2 cr)

MATH 3502—Applied Probabilistic Modeling for Management Science (2 cr)

POL 2001—Political Science Research Methods [SS] (4 cr)

PSY 2001—Research Methods in Psychology [SS] (4 cr)

SOC 3103—Research Methodology in Sociology (4 cr)

SOC 3131—World Population [ENVT] (4 cr)

## Statistics Minor

The GPA in these courses must be at least 2.00.

### Minor Requirements

STAT 3601—Data Analysis [M/SR] (4 cr)

STAT 1601—Introduction to Statistics [M/SR] (4 cr)

or STAT 2601—Statistical Methods [M/SR] (4 cr)

### Minor Elective Courses

Take 16 or more credits from the following:

#### Stat courses

Take 1 or more courses from the following:

STAT 1993—Directed Study (1.0–5 cr)

STAT 2501—Probability and Stochastic Processes [M/SR] (4 cr)  
 STAT 2611—Mathematical Statistics [M/SR] (4 cr)  
 STAT 2701—Introduction to Data Science [M/SR] (4 cr)  
 STAT 2993—Directed Study (1.0–5 cr)  
 STAT 3501—Survey Sampling [M/SR] (4 cr)  
 STAT 3611—Multivariate Statistical Analysis [M/SR] (4 cr)  
 STAT 3993—Directed Study (1.0–5 cr)  
 STAT 4601—Biostatistics (4 cr)  
 STAT 4611—Statistical Consulting (4 cr)  
 STAT 4631—Design and Analysis of Experiments (4 cr)  
 STAT 4651—Applied Nonparametric Statistics (4 cr)  
 STAT 4671—Statistical Computing (4 cr)  
 STAT 4681—Introduction to Time Series Analysis (4 cr)  
 STAT 4993—Directed Study (1.0–5 cr)

#### Non-stat courses

Take 0 or more courses from the following:

CSCI 1201—Introduction to Digital Media Computation [M/SR] (4 cr)  
 CSCI 1251—Computational Data Management and Manipulation [M/SR] (4 cr)  
 CSCI 1301—Problem Solving and Algorithm Development [M/SR] (4 cr)  
 CSCI 1302—Foundations of Computer Science [M/SR] (4 cr)  
 CSCI 4403—Systems: Data Mining (2 cr)  
 CSCI 4458—Systems: Bioinformatic Systems (4 cr)  
 CSCI 4555—Theory: Neural Networks and Machine Learning (4 cr)  
 ECON 3501—Introduction to Econometrics [M/SR] (4 cr)  
 MATH 2101—Calculus III [M/SR] (4 cr)  
 MATH 2111—Linear Algebra [M/SR] (4 cr)  
 MATH 2202—Mathematical Perspectives [M/SR] (4 cr)  
 MATH 3221—Real Analysis I (4 cr)  
 MATH 3401—Operations Research (4 cr)  
 MATH 3501—Applied Deterministic Modeling for Management Science (2 cr)  
 MATH 3502—Applied Probabilistic Modeling for Management Science (2 cr)

## Statistics Course Descriptions

**STAT 1601. Introduction to Statistics.** (M/ SR; 4 cr; prereq high school higher algebra; fall, spring, every year)  
 Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

**STAT 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**STAT 2501. Probability and Stochastic Processes.** (M/SR; 4 cr; =[MATH 2501]; prereq Math 1101 or #; fall, offered periodically)  
 Same as Math 2501. Probability theory; set theory, axiomatic foundations, conditional probability and independence, Bayes' rule, random variables. Transformations and expectations; expected values, moments and moment generating functions. Common families of distributions; discrete and continuous distributions. Multiple random variables; joint and marginal distributions, conditional distributions and independence, covariance and correlation, multivariate distributions. Properties of random sample and central limit theorem. Markov chains, Poisson processes, birth and death processes, and queuing theory.

**STAT 2601. Statistical Methods.** (M/SR; 4 cr; prereq Math 1101 or Math 1021; fall, every year)  
 Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, nonparametric statistics, statistical quality control, use of statistical computer packages.

**STAT 2602. Mathematical Statistics.** (M/SR; 3 cr; fall, spring, every year)  
 Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, use of statistical computer packages.

**STAT 2611. Mathematical Statistics.** (M/SR; 4 cr; prereq Math 1101; spring, every year)  
 Introduction to probability theory. Principles of data reduction; sufficiency principle. Point estimation; methods of finding and evaluating estimators. Hypothesis testing; methods of finding and evaluating tests. Interval estimation; methods of finding and evaluating interval estimators. Linear regression and ANOVA.

**STAT 2701. Introduction to Data Science.** (M/SR; 4 cr; =[CSCI 2701]; prereq (Stat 1601 or Stat 2601 or Stat 2611) and (CSci 1201 or CSci 1301 or CSci 1251) or #; spring, every year)  
 Same as CSci 2701. Introduction to data science and informatics and their application to real world scenarios. Computational approaches to data types; database creation including technologies such as SQL/no-SQL; data visualization; data reduction, condensation, partitioning; statistical modeling; and communicating results.

**STAT 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**STAT 3501. Survey Sampling.** (M/SR; 4 cr; prereq 1601 or 2601 or #; fall, even years)  
 Introduction to basic concepts and theory of designing surveys. Topics include sample survey designs including simple random sampling, stratified random sampling, cluster sampling, systemic sampling, multistage and two-phase sampling including ratio and regression estimation, Horvitz-Thomson estimation, questionnaire design, non-sampling errors, missing value-imputation method, sample size estimation, and other topics related to practical conduct of surveys.

**STAT 3601. Data Analysis.** (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #; fall, every year)  
 Nature and objectives of statistical data analysis, exploratory and confirmatory data analysis techniques. Some types of statistical procedures; formulation of models, examination of the adequacy of the models. Some special models; simple regression, correlation analysis, multiple regression analysis, analysis of variance, use of statistical computer packages.

**STAT 3611. Multivariate Statistical Analysis.** (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #; spring, every year)  
 Analysis of categorical data. Loglinear models for two–and higher-dimensional contingency tables. Logistic regression models. Aspects of multivariate analysis, random vectors, sample geometry and random sampling, multivariate normal distribution, inferences about the mean vector, MANOVA. Analysis of covariance structures: principal components, factor analysis. Classification and grouping techniques: discrimination and classification, clustering, use of statistical computer packages.

**STAT 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on–or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**STAT 4601. Biostatistics.** (4 cr; prereq 1601 or 2601 or 2611 or #; spring, offered periodically)  
 Design and analysis of biological studies: biological assays, case-control studies, randomized clinical trials, factorial designs, repeated measures designs, observational studies, and infectious disease data. Analysis of survival data: basic concepts in survival analysis, group comparisons, and Cox regression model. Use of statistical computer packages.

**STAT 4611. Statistical Consulting.** (4 cr; prereq 3601, 3611; fall, spring, offered periodically)  
 Statistical consulting skills needed to deal effectively with clients or project teams, formulate statistical models, explain analyses, use standard statistical computer packages, and write reports in language understandable to non-statisticians.

**STAT 4631. Design and Analysis of Experiments.** (4 cr; prereq 3601 or #; fall, spring, offered periodically)  
 Design and analysis of experimental designs; blocking, randomization, replication, and interaction; complete and incomplete block designs;



factorial experiments; crossed and nested effects; repeated measures; confounding effects.

**STAT 4651. Applied Nonparametric Statistics.** (4 cr; prereq 1601 or 2601 or 2611 or #; fall, spring, offered periodically)  
Application of nonparametric statistical methods. Examples use real data, gleaned primarily from results of research published in various journals. Nonparametric inference for single samples, paired samples, and independent samples, correlation and concordance, nonparametric regression, goodness-of-fit tests, and robust estimation.

**STAT 4671. Statistical Computing.** (4 cr; prereq 1601 or 2601 or 2611 or #; summer, offered periodically)  
Entering, exploring, modifying, managing, and analyzing data by using selected statistical software packages such as R or SAS. The use of statistical software is illustrated with applications of common statistical techniques and methods. Designed for students who have a basic understanding of statistics and want to learn the computing tools needed to carry out an effective statistical analysis.

**STAT 4681. Introduction to Time Series Analysis.** (4 cr; prereq 3601 or #; fall, odd years)  
Introduction to the analysis of time series including those with a connection to environment such as spatial and spatio-temporal statistics. Randomness test, ARMA, ARIMA, spectral analysis, models for stationary and non-stationary time series, seasonal time series models, conditional heteroscedastic models, spatial random processes, covariance functions and variograms, interpolation and kriging.

**STAT 4901. Senior Seminar.** (1 cr; prereq sr; fall, every year)  
Full-year course. Required for all statistics majors. Students must attend year round and present one of the seminars.

**STAT 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

## Studio Art (ARTS)

(See Art, Studio.)

## Teacher Education Programs

(See Education; Education, Elementary; and Education, Secondary.)

## Theatre Arts (TH)

*Division of the Humanities*

The discipline encompasses theatre as an artistic form and as a social and cultural institution. The study of theatre arts enables the individual to develop a creative imagination, an inquiring mind, a sense of social responsibility, professional discipline, a collaborative attitude, artistic standards and judgment, and a respect for the art form.

### Objectives

- The theatre arts curriculum is designed to ensure that students
- \* understand the theories and process of theatrical production;
  - \* are able to apply theories and skills learned in the classroom to the practice of theatre both through discipline productions and other venues;
  - \* gain the physical and intellectual skills necessary to embody character, interpret a play, or envision the visual and aural elements of the world of the play;
  - \* are able to analyze a theatrical text so that they may in turn conceptualize and execute its design and performance;
  - \* learn to collaborate as a team in the production of theatre and, through critical thinking, learn how to solve the problems that must be addressed throughout the process;
  - \* develop competence in the technologies necessary to the design and production of theatre;
  - \* learn the historical and cultural significance of theatre and theatrical literature;
  - \* are competent in oral and written communication; and
  - \* are adequately prepared for graduate or professional school.

## Theatre Arts Major

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

TH 1101—The Theatre Experience: An Introduction [FA] (4 cr)  
TH 1111—Fundamentals of Acting [ART/P] (4 cr)  
TH 1301—Fundamentals of Design [ART/P] (4 cr)  
TH 2101—Fundamentals of Directing [ART/P] (4 cr)  
TH 2301—Stagecraft [ART/P] (4 cr)  
TH 3101—World Theatre: History and Literature I [FA] (4 cr)  
TH 3102—World Theatre: History and Literature II [FA] (4 cr)  
TH 3201—Advanced Acting [ART/P] (4 cr)  
or TH 3202—Advanced Directing [ART/P] (4 cr)  
TH 4901—Senior Project (2–4 cr)

### Elective Courses

*Take 4 or more credits from the following:*

TH 2111—Creative Drama with Children [ART/P] (4 cr)  
TH 2201—Voice and Movement [ART/P] (4 cr)  
TH 2211—Oral Interpretation [ART/P] (4 cr)  
TH 2221—Readers' Theatre [ART/P] (4 cr)  
TH 3001—Theatre Scene Painting Studio [FA] (4 cr)  
TH 3003—Stage Management [ART/P] (4 cr)  
TH 3201—Advanced Acting [ART/P] (4 cr)  
TH 3202—Advanced Directing [ART/P] (4 cr)  
TH 3301—Stage Lighting [ART/P] (4 cr)  
TH 3302—Stage Costuming [FA] (4 cr)  
TH 3303—Computer-Assisted Drawing [ART/P] (4 cr)  
TH 3306—Advanced Lighting and Sound Design [ART/P] (4 cr)  
TH 4301—Scenic Design [FA] (4 cr)

### Other Requirements

At least one para-programmatic theatre experience that is arranged through a theatre arts faculty member and may take any number of forms, e.g., internship with a theatre company, study abroad, or theatre tour to New York (TH 1040) or London (TH 1050).

*Portfolio review in the third year.*

Six major production responsibilities (four of which must be in a faculty-directed production, all others must be pre-approved by faculty, and three must be in the junior and senior years).

## Theatre Arts Minor

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B. Courses may not be taken S-N unless offered S-N only.

A minimum GPA of 2.00 is required in the minor to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

### Required Courses

TH 1101—The Theatre Experience: An Introduction [FA] (4 cr)  
TH 1111—Fundamentals of Acting [ART/P] (4 cr)  
TH 1301—Fundamentals of Design [ART/P] (4 cr)  
TH 2101—Fundamentals of Directing [ART/P] (4 cr)  
TH 2301—Stagecraft [ART/P] (4 cr)

### Elective Courses

*Take 12 or more credits from the following:*

TH 2111—Creative Drama with Children [ART/P] (4 cr)  
TH 2201—Voice and Movement [ART/P] (4 cr)  
TH 2211—Oral Interpretation [ART/P] (4 cr)  
TH 2221—Readers' Theatre [ART/P] (4 cr)  
TH 3001—Theatre Scene Painting Studio [FA] (4 cr)  
TH 3003—Stage Management [ART/P] (4 cr)

TH 3101—World Theatre: History and Literature I [FA] (4 cr)  
 TH 3102—World Theatre: History and Literature II [FA] (4 cr)  
 TH 3301—Stage Lighting [ART/P] (4 cr)  
 TH 3302—Stage Costuming [FA] (4 cr)  
 TH 3303—Computer-Assisted Drawing [ART/P] (4 cr)  
 TH 3306—Advanced Lighting and Sound Design [ART/P] (4 cr)  
 TH 4301—Scenic Design [FA] (4 cr)  
 TH 3201—Advanced Acting [ART/P] (4 cr)  
 or TH 3202—Advanced Directing [ART/P] (4 cr)

#### Production Requirement

Three major production responsibilities (at least one of which must be in a faculty-directed production, and at least two must be completed in the junior and senior years).

## Theatre Arts Course Descriptions

**TH 1040. Backstage on Broadway.** (1 cr [max 4 cr]; S-N only; prereq #; fall, spring, offered periodically)  
 Supervised field trip to New York; attending selected professional theatre productions; backstage tours; discussions with theatre professionals.

**TH 1050. London Theatre Tour.** (1 cr [max 4 cr]; S-N only; prereq #; fall, spring, offered periodically)  
 Supervised field trip to London, England; attending selected professional theatre productions; backstage tours; discussions with theatre professionals.

**TH 1060. Production Experience.** (1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)  
 Participation in some aspect of theatre production other than performing (e.g., scenery, props, costumes, lighting). An interview and approval from theatre faculty is required.

**TH 1070. Performance Experience.** (ART/P; 1 cr [max 8 cr]; S-N only; prereq #; fall, spring, every year)  
 Participation in theatrical production as a performer. A production audition is required with approval from the theatre faculty.

**TH 1101. The Theatre Experience: An Introduction.** (FA; 4 cr; practicum two hours per week, selected from M-Th from 2:00-5:00 pm; fall, every year)  
 Fundamental examination and practical application of the theory, history, and practice of theatrical performance as a reflection of society. Focus is on the theatre event as a collaborative effort and transitory art form. (lect, 2 hrs practicum)

**TH 1111. Fundamentals of Acting.** (ART/P; 4 cr; prereq 1101, theatre arts major or minor or #; spring, every year)  
 Approaches characterization from a physical and psychological view. Focus is on use of imagination, text analysis, body and voice to develop characters from modern realistic dramatic literature.

**TH 1301. Fundamentals of Design.** (ART/P; 4 cr; fall, every year)  
 Problem-solving approach to elements, principles, and functions of design; their place in the theatre and elsewhere.

**TH 1993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**TH 2101. Fundamentals of Directing.** (ART/P; 4 cr; prereq 1111, theatre arts major or minor or #; fall, every year)  
 Introduces the practical components of the director as artist, teacher, and collaborator. Focus is on the craft of directing modern realistic dramatic literature through text analysis, communication of concepts, and stylistic techniques.

**TH 2111. Creative Drama with Children.** (ART/P; 4 cr; prereq 1101 or theatre or elem ed major or #; fall, spring, offered periodically)  
 Development of classroom skills in the use of dramatic techniques to teach a broad range of subjects to children. Exercises, presentations, and experiential learning techniques are modeled and practiced in class.

**TH 2201. Voice and Movement.** (ART/P; 4 cr; prereq 1111, theatre arts major or minor or #; spring, every year)  
 Explores the use of the voice and the body as means for expression in performance and everyday communication. Focus is on expansion and enhancement of vocal and physical skills through release of tension, posture, vocal exercises, and muscle extension.

**TH 2211. Oral Interpretation.** (ART/P; 4 cr; offered alternate yrs; fall, spring, offered periodically)  
 Introduces the study of literature through text analysis and performance. Focus is on the student's discovery of the aesthetic, communicative, and performative elements of a variety of personal narratives, prose, and poetry.

**TH 2221. Readers' Theatre.** (ART/P; 4 cr; prereq 2211; fall, spring, offered periodically)  
 Explores the theory and practice of adapting literature into group performance. Focus is on text analysis, script development, directing, and performing both dramatic and non-dramatic literary texts.

**TH 2222. Creating Live Radio Theatre from Script to Performance.** (ART/P; 1 cr; S-N only; prereq #; students will audition/ interview to be on radio; spring, offered periodically)  
 Provides an opportunity to develop a radio theater show from script through broadcast performance. Parts are assigned through audition. Involves significant research and rehearsal time in various capacities for all students enrolled.

**TH 2231. Playwriting.** (ART/P; 4 cr; fall, spring, offered periodically)  
 Introduces the process for writing and revising an original play. Focus is on writing, revising, and presenting a short play, including idea generation, invention, drafting, and peer response.

**TH 2301. Stagecraft.** (ART/P; 4 cr; spring, every year)  
 Development of stagecraft from the Greeks to the present. Basic forms of stage scenery and their functions in the theatre. Tools, materials, and techniques employed in creating the visual environment of the stage. (3 hrs lect, 3 hrs practicum)

**TH 2993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
 An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**TH 3001. Theatre Scene Painting Studio.** (FA; 4 cr; prereq #; fall, odd years)  
 Instruction in a systematic approach to painting theatrical scenery. Traditional techniques and the tools and paints that have been developed to support those techniques.

**TH 3003. Stage Management.** (ART/P; 4 cr; prereq #; fall, spring, offered periodically)  
 Introduces the principles of theatrical stage management; explores the stage manager's functions and duties through all phases of the production process including pre-production, rehearsal, and performance.

**TH 3101. World Theatre: History and Literature I.** (FA; 4 cr; fall, every year)  
 Theatrical practice and dramatic literature from origins through late 17th century, tracing the roots leading to, and influences on, early modern European theatre practice and dramatic literature, as well as examining select Asian, African, and/or pre-Columbian American theatrical practice.

**TH 3102. World Theatre: History and Literature II.** (FA; 4 cr; spring, every year)  
 Theatrical practice and dramatic literature from the late 17th century to the present, examining select Asian, African, and/or Western Hemisphere theatrical practice, as well as tracing the roots leading to, and influences on, current world theatre practice and dramatic literature.

**TH 3201. Advanced Acting.** (ART/P; 4 cr; prereq 1101, 1111, 2101; fall, spring, offered periodically)  
 Begins with advanced acting techniques based in psychological realism and moves to an exploration of select classical and non-realistic forms. Styles to be examined are chosen from a list, including ancient Greek, Elizabethan, comedy of manners, absurdism, postmodernism, musical theatre, etc.

**TH 3202. Advanced Directing.** (ART/P; 4 cr; prereq 1101, 1111, 2101; fall, spring, offered periodically)  
 Begins with advanced directing techniques based in psychological realism and moves to an exploration of select classical and non-realistic forms. Styles to be examined are chosen from a list, including ancient Greek, Elizabethan, comedy of manners, absurdism, postmodernism, musical theatre, etc.

**TH 3301. Stage Lighting.** (ART/P; 4 cr; prereq 1301, 2301; fall, even years)  
 History and development of lighting for the stage. Theory and concepts of lighting as a visual art and its function in the theatre. Lighting design as a creative process and practical solution of lighting design problems. Lighting equipment and its use.

**TH 3302. Stage Costuming.** (FA; 4 cr; prereq 1301, 2301; fall, odd years)  
History and development of stage costume. Theory and concepts of stage costuming as a visual art and its function in the theatre. Costume design as a creative process. Practical demonstrations of knowledge of design, history, and functions of stage costume.

**TH 3303. Computer-Assisted Drawing.** (ART/P; 4 cr; fall, offered periodically)  
Theory, concepts, and practice of using a computer as a drawing and drafting tool.

**TH 3304. Art Direction for Film and Television.** (FA; 4 cr; fall, spring, offered periodically)  
Introduction of art direction for film and television. The roles and duties of the production designer and art director for fictional film and television series.

**TH 3305. Stage Make-Up.** (ART/P; 4 cr; fall, spring, offered periodically)  
Systematic approach to stage make-up application. Includes history, safety, product, design, and application, with heavy emphasis on hands-on experience.

**TH 3306. Advanced Lighting and Sound Design.** (ART/P; 4 cr; prereq 1301 or 3301 or #; fall, spring, offered periodically)  
Advanced study in the application of design theory as it relates to lighting and sound for theatre. Particular emphasis on use of relevant technologies in the design process.

**TH 3450. Irish Drama: Print, Culture, and Performance.** (IP; 4 cr [max 8 cr]; some course readings expected before departure; summer, offered periodically)  
Includes theatre performances and tours, workshops, and seminars from leading Irish scholars and actors; class sessions; cultural visits and exploration of Irish cities, landscapes, and historical sites throughout Ireland.

**TH 3993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

**TH 4301. Scenic Design.** (FA; 4 cr; prereq 1301, 2301; fall, odd years)  
Designing scenery as an expressive environment for the theatre. Elements and functions of design and principles of composition. Problems in coordination and execution of design in the interpretation of dramatic literature using a variety of staging techniques. Study of various styles of historical and contemporary stage productions and theatre architecture through the writings and designs of such artists and theorists as Appia, Craig, Meyerhold, Jones, and Svoboda.

**TH 4901. Senior Project.** (2-4 cr ; prereq theatre arts major, #; fall, spring, every year)  
Culminating activity to demonstrate the student's competence in some area of theatre arts. Projects may be completed independently (e.g., a research paper, a solo acting performance) or as part of a group effort. Acting, scenery, lighting, costume design, playwriting, and theatre history are some areas in which the project may be undertaken.

**TH 4993. Directed Study.** (1-5 cr [max 10 cr]; fall, spring, every year)  
An on-or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.



# Administration and Faculty

## University Regents

**Richard Beeson**, Congressional District 4, **Chair**

**Dean Johnson**, At Large, **Vice Chair**

**Clyde Allen**, Congressional District 7

**Laura Brod**, At Large

**Linda Cohen**, At Large,

**Thomas Devine**, Congressional District 2

**John Frobenius**, Congressional District 6

**David Larson**, Congressional District 3

**Peggy Lucas**, Congressional District 5

**David McMillan**, Congressional District 8

**Abdul Omari**, At-Large

**Patricia Simmons**, Congressional District 1

## University Administrators

**Eric W. Kaler**, President

**Katrice Albert**, Vice President, Office for Equity and Diversity

**Ann Aronson**, Deputy Chief of Staff for Marketing and co-leader of University Relations, University Relations

**Kathryn F. Brown**, Vice President, Human Resources

**William Donohue**, General Counsel, Office of General Counsel

**Karen Hanson**, Senior Vice President for Academic Affairs and Provost, Office of Academic Affairs and Provost

**Brian Herman**, Vice President, Office of the Vice President for Research

**Todd Iverson**, Interim Special Assistant to the President, Government Relations

**Brooks Jackson**, Dean and Vice President, Medical School & Health Sciences

**Gail Klatt**, Associate Vice President, Office of Internal Audits

**Wendy Lougee**, Dean and University Librarian, University Libraries

**Richard Pfitzenreuter**, Vice President and CFO, University Budget and Finance

**Amy Phenix**, Chief of Staff, Office of the President

**Kathleen Schmidlkofer**, President and CEO, University of Minnesota Foundation

**Brian Steeves**, Executive Director, Board of Regents

**Scott Studham**, Vice President and CIO, Office of Information Technology

**Chuck Tombarge**, Deputy Chief of Staff and co-leader of University Relations, University Relations

**Pamela Wheelock**, Vice President, University Services

## Morris Campus

### Administrative Officers

**Jacqueline Johnson (2006)**, **Chancellor**; B.A., Macalester College; M.S., Ph.D., Purdue University

**Bart Finzel (1989)**, **Vice Chancellor for Academic Affairs and Dean**; B.A., Valparaiso University; M.A., Ph.D., Cornell University

**Sandra K. Olson-Loy (1985)**, **Vice Chancellor for Student Affairs**; B.S., Moorhead State University; M.A., University of Wisconsin, Madison

**Bryan Herrmann (2001)**, **Vice Chancellor for Facilities and Finance**; B.A., University of Minnesota, Morris; M.B.A., University of Minnesota, Duluth

**Carla Riley (2003)**, **Director, External Relations**; B.A., University of Minnesota, Morris; M.A., University of St. Thomas

**Susan Schmidgall (2007)**, **Chief Development Officer**; B.A., University of Minnesota, Duluth

**Gwen Rudney (1991)**, **Chair, Division of Education**; B.A., M.A., Ph.D., University of California, Riverside

**Pieranna Garavaso (1985)**, **Chair, Division of the Humanities**; B.A., M.A., University of Padova, Italy; Ph.D., University of Nebraska, Lincoln

**Peh Ng (1995)**, **Chair, Division of Science and Mathematics**; B.S., Adrian College; M.S., Ph.D., Purdue University

**Janet Schrunk Ericksen (1998)**, **Chair, Division of the Social Sciences**; B.A., University of Kansas, Lawrence; M.A., Ph.D., University of Illinois, Urbana-Champaign

## UMM Alumni Association

### Board of Directors

**Donnay Green**, '05, Crystal, **President**

**Suzanne Basiago**, '87, Minneapolis, **Immediate Past President**

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**Ryan C. Fair**, '01, Crystal

**Beverly Mahoney Harren**, '66, Minneapolis

**Curt Teberg**, '70, Duluth

**Larry Traversie**, '00, Minneapolis

**Susan Von Mosch**, '78, Saint Paul

## Administrative Directors

- Jill Beauregard** (1993), Director, Financial Aid/Student One Stop; B.A., University of Minnesota, Morris; M.Ed., University of Minnesota, Duluth
- Brenda Boever** (1980), Director, Office of Academic Success and Coordinator, Academic Advising; B.A., University of Minnesota, Morris; M.L.S., University of Minnesota, Twin Cities
- Michael Cihak** (1995), Director, Instructional and Media Technologies; B.S., Minnesota State University Moorhead; M.Ed., University of Minnesota, Duluth
- Chris Dallager** (2014), Coordinator, Disability Services; B.A., University of Minnesota, Morris; M.S.Ed., University of Kansas; M.S.Ed., University of Wisconsin-River Falls
- LeAnn Dean** (1991), Director, Library; B.A., Concordia College; M.A., University of Minnesota, Twin Cities; M.A., University of South Dakota
- Gary Donovan** (1973), Coordinator, Career Center; B.A., M.S., Mankato State University
- Mark Fohl** (1985), Athletic Director; B.S., Dickinson State University; M.S., University of North Dakota
- Henry Fulda** (2002), Assistant Vice Chancellor for Student Life and Director of Student Counseling; B.A., Lamar University; M.S., M.B.A., Ed.D., Texas A&M University
- James Hall** (2010), Director, Computing Services; B.S., University of Wisconsin-River Falls; M.S., University of Minnesota, Twin Cities
- Nancy Helsper** (1977), Director, Institutional Research; B.A., University of Minnesota, Morris; M.L.S., University of Minnesota, Twin Cities
- Jennifer Zych Herrmann** (2000), Associate Director, Office of Academic Success, and Coordinator, Retention; B.A., University of Minnesota, Morris; M.A., University of Minnesota, Twin Cities
- Arne Kildegaard** (2001), Director, Center for Small Towns; B.A., Gustavus Adolphus College; M.A., University of Chicago; Ph.D., University of Texas at Austin
- Judy Korn** (1996), Coordinator, Office of the Registrar; B.A., University of Minnesota, Morris
- Hilda Ladner** (2007), Assistant to the Chancellor for Equity and Diversity and Director of the Multi-Ethnic Student Program; B.A., M.Ed., Northern Arizona University
- Corrine Larson** (1999), Director, Health Services; R.N., St. Barnabus School of Nursing
- Jennifer Lund** (1990), Lieutenant; B.S., Mankato State University
- Sarah Mattson** (1995), Director, Human Resources; B.S., Southwest State University
- Colleen Miller** (2008), Director, Finance; B.A., College of St. Catherine
- Thomas Ross** (2003), Associate Director, Residential Life; B.S., University of South Dakota
- David Israels-Swenson** (2004), Director, Student Activities; B.A., Missouri Southern State College; M.S., Pittsburg State University
- Roger Wareham** (2009), Director, Grants Development; B.S., Southern Utah University; M.F.A., Wayne State University
- Melissa Weber** (2007), Director, Communications; B.S., North Dakota State University
- Aaron Wenzel** (2012), Coordinator, Academic Center for Enrichment; B.A., Beloit College; M.A., Ph.D., The Ohio State University

## Morris Campus Faculty

*\*Recipient of the Horace T. Morse-Minnesota Alumni Association Award for Outstanding Contributions to Undergraduate Education.*

### **Division of Education**

**Gwen Rudney, Chair**

### **Elementary and Secondary Education**

#### **Professor**

**\*Gwen Rudney** (1991), B.A., M.A., Ph.D., University of California, Riverside

#### **Associate Professor**

**\*Michelle Page** (2000), B.A., Concordia College; M.S., Ph.D., University of Wisconsin, Madison

#### **Assistant Professor**

**Kenneth Emo** (2012), B.S., M.Ed., University of California, Davis; Ph.D., University of Colorado, Boulder

**Wendy Emo** (2012), B.A., University of California, Davis; M.Ed., South Dakota State University; Ph.D., University of York, England

**Kiel Harell** (2014), B.A., University of Minnesota, Morris; Ph.D. (ABD), University of Wisconsin, Madison

#### **Instructional Staff**

**James Bovre** (2009), B.A., Southwest Minnesota State College; M.A., University of St. Thomas

## Sport Studies and Athletics

### **Coaches and Instructional Staff**

**Raymond Bowman** (2001), Head Athletic Trainer; B.S., Idaho State University

**Chad Braegelmann** (2008), Head Women's Volleyball, Assistant Athletics Director; B.A., University of Minnesota, Morris; M.A., Northern State University

**Mark Fohl** (1985), Athletics Director, Head Men's Golf; B.S., Dickinson State College; M.S., University of North Dakota

**Paul Grove** (2002), Assistant Athletics Director, Head Men's Basketball; B.A., Gustavus Adolphus College; M.S., Augustana College

**Timothy Grove** (2006), Head Women's Basketball; A.A., Fergus Falls Community College; B.S., Mayville State University; M.A., University of North Dakota, Grand Forks

**Matthew Johnson** (2004), Assistant Athletics Director, Assistant Football; B.A., University of Minnesota, Morris; M.Ed., University of Minnesota, Duluth

**Grant Harding** (2007), Head Men's Baseball; B.S., Hamline University

**Rich Hardy** (2002), Athletic Trainer; B.S., Northern State University; M.A., University of Nebraska at Kearney

**Jeremy Karger-Gatzow** (2004), Head Track and Cross Country; B.A., Hamline University; M.A., University of Illinois at Chicago

**Jana Koehler** (2000), Head Women's Golf; B.A., University of Minnesota, Morris

**Dan Magner** (2006), Head Women's Soccer; B.A., Eastern Nazarene College

**David Molesworth** (2004), Head Swimming; B.S., M.A., University of South Dakota

**Heather Pennie-Roy** (1998), Head Women's Softball; B.A., University of Minnesota, Morris; M.A., Northern State University  
**Elijah Starzl** (2008), Head Tennis; B.S., M.S., Southwest Minnesota State University  
**Scott Turnbull** (2007), Head Men's Soccer; B.A., University of Minnesota, Morris

## ***Division of the Humanities***

**Pieranna Garavaso, Chair**

### **Art History**

#### **Associate Professor**

**Julia Dabbs** (2000), A.B., University of Michigan, Ann Arbor; M.A., Ph.D., University of Maryland College Park  
**Joel Eisinger** (1989), B.A., Indiana University; M.A., Stanford University; M.F.A., Ph.D., Indiana University  
**James Schryver** (2005), B.A., Boston University; M.A., Ph.D., Cornell University

### **Art, Studio**

#### **Professor**

**Jessica Larson** (1995), B.A., University of Minnesota, Morris; M.F.A., University of Colorado

#### **Associate Professor**

**Michael Eble** (2003), B.F.A., University of Louisiana; M.F.A., University of Mississippi  
**Theresa Otten** (2001), B.S., North Dakota State University; M.F.A., University of South Dakota, Vermillion

#### **Instructional Staff**

**Anne Barber** (2013), B.A., University of Minnesota, Morris; M.F.A. in Film, University of Wisconsin, Milwaukee  
**Kevin Flicker** (1986), B.A., University of Minnesota, Morris  
**Gary Wahl** (2013), B.A., University of Minnesota, Morris; M.A., M.F.A., University of Iowa

### **Communication, Media, and Rhetoric**

#### **Professor**

**Mary Elizabeth Bezanson** (1987), B.S., B.A., University of Minnesota, Twin Cities; M.A., Ph.D., University of Washington

#### **Associate Professor**

**Barbara Burke** (1996), M.A., University of Michigan; B.S., B.A., M.A., Ph.D., Purdue University

#### **Instructional Staff**

**Peter Koprince** (2012), B.A., Wake Forest University; M.A., Ph.D., University of North Dakota  
**Nadezhda Sotirova** (2015), B.A., Bridgewater College; M.A., Virginia Polytechnic Institute and State University; Ph.D. (ABD), University of Massachusetts, Amherst

### **English**

#### **Professor**

**Vicki Graham** (1989), B.A., San Francisco State University; M.L.S., M.A., Ph.D., University of California, Berkeley  
**Michael Lackey** (2007), B.A., University of St. Thomas; M.A., Ph.D., University of Kentucky, Lexington

#### **Associate Professor**

\***Bradley Deane** (2002), B.A., University of Michigan; M.A., Ph.D., Northwestern University  
**Julie Eckerle** (2007), B.A., Franklin College; M.A., University of Kentucky; Ph.D., University of Minnesota, Twin Cities  
\***Janet Schrunk Ericksen** (1998), B.A., University of Kansas, Lawrence; M.A., Ph.D., University of Illinois, Urbana-Champaign  
**Becca Gercken** (2002), B.A., Slippery Rock University; M.A., Ph.D., University of Miami  
**C. Brook Miller** (2006), B.A., Dartmouth College; M.A., Ph.D., Indiana University  
**Tisha Turk** (2005), B.A., Oberlin College; M.A., Ph.D., University of Wisconsin, Madison

#### **Instructional Staff**

**David Ericksen** (1998), B.A., Carleton College; M.A., Ph.D., University of Illinois at Urbana-Champaign  
**Joshua Johnson** (2012), B.A., University of Minnesota, Morris; M.A., West Virginia University  
**Athena Kildegaard** (2006), B.A., Gustavus Adolphus College; M.A.T., University of Chicago  
**Christine Kolaya** (2008), B.A., Loyola University, Chicago; M.F.A., Indiana University, Bloomington  
**Ellie Musselman** (2013), B.A., M.F.A., Minnesota State University Moorhead  
**Diane Yerka** (2014), B.A., M.A., Idaho State University

### **French**

#### **Associate Professor**

**Tammy Berberi** (2002), B.A., Colorado College; M.A., University of North Carolina, Chapel Hill; Ph.D., Indiana University, Bloomington  
**Sarah Buchanan** (2000), B.A., St. Olaf College; M.A. University of Utah; Ph.D., University of Minnesota, Twin Cities

#### **Assistant Professor**

**Lisa Bevevino** (2012), B.A., University of North Carolina at Chapel Hill; M.A., Ph.D., Ohio State University

### **German Studies**

#### **Assistant Professor**

**Steven Mark Carey** (2012), B.A., St. Joseph's University; M.A., Ph.D., Washington University in St. Louis

#### **Instructional Staff**

**Tonya Kim Dewey** (2014), B.A., M.A., Ph.D., University of California, Berkeley

### **Languages**

#### **Instructional Staff**

**Viktor Berberi** (2002), B.A., University of Notre Dame; M.A., Ph.D., Indiana University  
**Gabriel Desrosiers** (2010), B.A., University of Minnesota, Morris; M.Ed., University of Minnesota, Duluth  
**Nancy Pederson** (2009), B.S., Moorhead State University; M.A., University of Minnesota, Twin Cities  
**Timothy Poore** (2011), B.A., M.A., University of Northern Colorado  
**Chen-Yan Ren** (2014), M.A., Beijing Language University; Ph.D., Beijing University  
**Ryan Schamp** (2011), B.A., M.A., University of South Dakota

## Music

### Assistant Professor

- John Wesley (Wes) Flinn** (2012), B.M., Morehead State University; M.M., Ph.D., University of Cincinnati College-Conservatory of Music
- Bradley Miller** (2014), B.A., Concordia College, Moorhead; M.M., University of Minnesota, Twin Cities; D.M.A., University of Arizona, Tucson
- Denise Odello** (2008), B.M., University of California, Irvine; M.A., Ph.D., University of California, Santa Barbara
- Jason Squinobal** (2012), B.A., Berklee College of Music; M.A., Ph.D., University of Pittsburgh

### Instructional Staff

- Alexander Corbett** (2014), B.M., Concordia College, Moorhead; M.M., D.M.A., University of Minnesota, Twin Cities
- Ann DuHamel** (2009), B.A., College of St. Benedict; M.M., University of Notre Dame; D.M.A., University of Iowa
- Melissa Hanson** (2009), B.A., Macalester College; M.M., New England Conservatory of Music
- Simon Tillier** (2011), G.Mus., Royal Northern College of Music; M.Mus., University of Calgary, Canada

## Philosophy

### Professor

- \***Pieranna Garavaso** (1985), B.A., M.A., University of Padova, Italy; Ph.D., University of Nebraska, Lincoln

### Associate Professor

- Mark Collier** (2005), B.A., Columbia University; Ph.D., University of California, San Diego

### Assistant Professor

- Daniel Demetriou** (2009), B.A., Ambassador University; M.A., Texas A&M University; Ph.D., University of Colorado at Boulder

### Instructional Staff

- Lory Lemke** (1987), B.A., Creighton University; Ph.D., University of Nebraska-Lincoln

## Spanish

### Associate Professor

- Stacey Parker Aronson** (1991), B.A., Ohio Wesleyan University; M.A., University of Kansas; Ph.D., University of Minnesota, Twin Cities
- James Wojtaszek** (1999), B.A., M.A., Kent State University; Ph.D., Rutgers, The State University of New Jersey

### Assistant Professor

- Thomas Genova** (2012), B.A., Georgetown University; M.A., Ph.D., University of California, Santa Cruz

### Instructional Staff

- Windy Roberts** (2005), B.S., Lesley University, Cambridge, MA; M.Ed., Concordia College

## Theatre Arts

### Professor

- Ray Schultz** (2000), B.A., New York University; M.A., Ph.D., Wayne State University

### Associate Professor

- Siobhan Bremer** (2001), B.S., Winona State University; M.F.A., Minnesota State University, Mankato

### Assistant Professor

- Craig Moxon** (2013), B.S., M.F.A., Southern Illinois University

## Division of Science and Mathematics

### Peh Ng, Chair

## Biology

### Professor

- Christopher Cole** (1989), B.A., Brown University; M.S., Ph.D., University of Minnesota, Twin Cities
- Peter Wyckoff** (2001), B.A., Drew University; Ph.D., Duke University

### Associate Professor

- Tracey Anderson** (1997), B.A., Gustavus Adolphus College; M.A., University of Kansas; Ph.D., Oregon State University
- Margaret Kuchenreuther** (1991), B.A., University of Northern Iowa; M.S., University of Wisconsin, Milwaukee; Ph.D., University of Wisconsin, Madison
- Paul Myers** (2000), B.S., University of Washington, Seattle; Ph.D., University of Oregon
- Heather Waye** (2008), B.Sc., M.Sc., University of Victoria; Ph.D., Oregon State University
- Timna Wyckoff** (2001), B.A., University of Minnesota, Morris; Ph.D., Duke University

### Assistant Professor

- Ruben Michael Ceballos** (2012), B.S., University of Alabama in Huntsville; M.A., University of Alabama at Birmingham; Ph.D., University of Montana
- Rachel Johnson** (2013), B.A., Boston University; Ph.D., Mayo Graduate School

## Chemistry

### Professor

- \***Nancy Carpenter** (1989), B.S., Elmhurst College; Ph.D., Northwestern University
- Ted Pappenfus** (2003), B.A., Saint John's University; Ph.D., University of Minnesota, Twin Cities

### Associate Professor

- Joseph Alia** (2002), B.A., New College of Florida; Ph.D., Yale University
- Jennifer Goodnough** (2002), B.S., Saint Francis College, Pennsylvania; Ph.D., University of Wisconsin, Madison
- Timothy Soderberg** (2000), B.A., Amherst College; Ph.D., University of Utah

### Assistant Professor

- Zachary Mensinger** (2013), B.A., Macalester College; Ph.D., University of Oregon

### Instructional Staff

- James Barbour** (2013), B.S., M.S., North Carolina State University; Ph.D., University of Georgia
- Abbey Fischer** (2014), B.S., Ph.D., University of Minnesota, Twin Cities



## Computer Science

### Professor

**Nicholas McPhee** (1991), B.A., Reed College; M.S., Ph.D., University of Texas, Austin

### Associate Professor

**Kristin Lamberty** (2005), B.A., University of Minnesota, Morris; M.S., Ph.D., Georgia Institute of Technology

**Elena Machkasova** (2003), M.S., Moscow Oil and Gas Institute; M.S., University of Southern Maine; Ph.D., Boston University

### Assistant Professor

**Peter Dolan** (2014), B.A., University of Alaska, Fairbanks; M.S., Ph.D., University of Oregon

## Geology

### Professor

**Keith Brugger** (1993), B.S., M.S., Lehigh University; Ph.D., University of Minnesota, Twin Cities

\***James Cotter** (1984), B.A., Franklin and Marshall College; M.S., Ph.D., Lehigh University

### Assistant Professor

**Stephen Crabtree** (2012), B.A., Franklin and Marshall College; Ph.D., University of Michigan, Ann Arbor

## Mathematics

### Professor

\***Peh Ng** (1991), B.S., Adrian College; M.S., Ph.D., Purdue University

**David Roberts** (1999), B.A., Princeton University; Ph.D., Harvard University

### Associate Professor

**Mark Logan** (2002), B.A., Carleton College; Ph.D., University of Wisconsin, Madison

\***Barry McQuarrie** (2000), B.S., University of Winnipeg; M.M., University of Waterloo; Ph.D., University of Manitoba

### Assistant Professor

**Christopher Atkinson** (2012), B.S., Ph.D., University of Illinois at Chicago

**Laura Mercredi (Merc) Chasman** (2011), B.S., California Institute of Technology; M.S., Ph.D., University of Illinois at Urbana-Champaign

### Instructional Staff

**Eric Miles** (2014), B.S., Colorado Mesa University; M.S., Ph.D., Colorado State University

## Physics

### Professor

**Gordon McIntosh** (1992), B.S., Westminster College, Pennsylvania; M.S., West Virginia University; Ph.D., University of Massachusetts, Amherst

### Associate Professor

**Sylke Boyd** (2004), M.A., Ph.D., University of Technology in Chemnitz, Germany

**Michael Korth** (1984), B.A., University of Minnesota, Morris; M.S., Ph.D., University of Maryland

## Instructional Staff

**W. Robert Matson** (2013), B.S., Humboldt State University; Ph.D., Oklahoma State University

## Statistics

### Professor

\***Jon Anderson** (1994), B.S., M.S., Ph.D., University of Minnesota, Twin Cities

**Jong-Min Kim** (2002), B.S., Chongju University, South Korea; M.S., Chung-Ang University, South Korea; Ph.D., Oklahoma State University

\***Engin Sungur** (1990), B.CP., M.S., Middle East Technical University, Turkey; M.S., Ph.D., Carnegie Mellon University

### Assistant Professor

**Peter Dolan** (2014), B.A., University of Alaska, Fairbanks; M.S., Ph.D., University of Oregon

## Division of the Social Sciences

**Janet Schrunk Ericksen, Chair**

## Anthropology

### Associate Professor

**Rebecca Dean** (2007), B.A., University of Michigan; M.A., Ph.D., University of Arizona

### Assistant Professor

**Cristina Ortiz** (2013), B.A., Central College; M.A., Ph.D., University of Iowa

### Instructional Staff

**Joseph Beaver** (2009), B.A., University of Kansas; M.A., Indiana University; Ph.D., University of Massachusetts

## Economics/Management

### Professor

**Cyrus Bina** (2000), B.S., Institute of Advanced Accounting, Tehran; M.A., Ball State University; Ph.D., American University

**Stephen Burks** (1999), B.A., Reed College; M.A., Indiana University; Ph.D., University of Massachusetts

\***Bart Finzel** (1989), B.A., Valparaiso University; M.A., Ph.D., Cornell University

**Arne Kildegaard** (2001), B.A., Gustavus Adolphus College; M.A., University of Chicago; Ph.D., University of Texas, Austin

### Assistant Professor

**Bibhudutta Panda** (2012), B.A., Uktal University, India; M.A., Gokhale Institute of Politics and Economics, India; M.Phil., Delhi School of Economics, India; M.S., Ph.D., Louisiana State University

### Instructional Staff

**David Brown** (2014), B.A., Coe College; M.S., Ph.D., University of Illinois, Urbana; Ph.D., University of California, Davis

**Satis Devkota** (2014), B.A., Tribhuvan University, Nepal; M.A., Western Illinois University; Ph.D., Wayne State University

**Deb Economou** (1995), B.A., Case Western Reserve University; J.D., University of Minnesota Law School

**Hiroyuki Imai** (2010), B.A., Keio University, Tokyo; M.A., The University of Michigan; Ph.D., The Johns Hopkins University

**Lauri Wyum** (2014), B.S., Moorhead State University; M.A., Dakota State University

## History

### Professor

\***Roland Guyotte** (1969), A.B., Brown University; M.A., Ph.D., Northwestern University

### Associate Professor

\***Jennifer Kolpacoff Deane** (2005), B.A., University of Washington, Seattle; Ph.D., Northwestern University  
**Stephen Gross** (1998), B.A., Ph.D., University of Minnesota, Twin Cities  
**Marynel Ryan Van Zee** (2005), B.A., University of Illinois, Chicago; Ph.D., University of Minnesota, Twin Cities

### Assistant Professor

**Benjamin Narvaez** (2012), B.A., Grinnell College; M.A., Ph.D., University of Texas at Austin  
**Kevin Whalen** (2015), B.A., University of Minnesota, Morris; Ph.D., University of California, Riverside

### Instructional Staff

**Michael Cheyne** (2012), B.A., Grand Valley State University; M.A., Western Michigan University; Ph.D., University of Minnesota, Twin Cities  
**Hsiang-Wang Liu** (2013), B.A., National Taiwan Normal University; Ph.D., Pennsylvania State University

## Political Science

### Professor

**Seung-Ho Joo** (1995), B.A., Yonsei University, Korea; M.A., Eastern Kentucky University; Ph.D., Pennsylvania State University

### Associate Professor

**Roger Rose** (2009), B.A., Occidental College; M.A., Ph.D., University of California, Davis

### Assistant Professor

**Sheri Breen** (2007), B.A., Ph.D., University of Minnesota, Twin Cities

### Instructional Staff

**Tim Lindberg** (2012), B.A., University of Minnesota, Morris; Ph.D. (ABD), University at Albany, State University of New York

## Psychology

### Professor

\***Leslie Meek** (1995), B.A., University of Minnesota, Morris; Ph.D., University of Michigan

### Associate Professor

**Thomas Johnson** (1986), B.A., St. Olaf College; Ph.D., University of Minnesota, Twin Cities  
**Heather Peters** (2007), B.A., B.S., University of Minnesota, Twin Cities; M.A., University of Arizona; Ph.D., University of California, Davis  
**Dennis Stewart** (2002), B.S., University of Illinois at Urbana-Champaign; M.A., Ph.D., Miami University

### Assistant Professor

**Oscar Baldelomar** (2012), B.A., M.A., Ph.D., California State University, Los Angeles  
**Kerry Michael** (2014), B.S., Athens State University; M.A., The University of Alabama in Huntsville; Ph.D., Pennsylvania State University

## Instructional Staff

**Nicholas Leonard** (2011), B.A., St. John's University; M.A., Ph.D., University of Minnesota, Twin Cities  
**Cheryl Stewart** (2004), B.S., George Mason University, Fairfax, Virginia; M.A., Ph.D., Miami University, Oxford, Ohio

## Sociology

### Associate Professor

**Solomon Gashaw** (1986), B.A., Haile Selassie I University, Ethiopia; M.L.I., S.J.D., Ph.D., University of Wisconsin, Madison  
**Farah Gilanshah** (1988), B.A., National University of Iran; M.A., Ph.D., University of Minnesota, Twin Cities  
**Jennifer Rothchild** (2003), B.A., Miami University; M.A., Georgia State University; Ph.D., American University

### Instructional Staff

**Chris Butler** (2009), B.A., Miami University; M.A., University of California, Santa Cruz

## Interdisciplinary Studies

### American Indian Studies

#### Assistant Professor

**Kevin Whalen** (2015), B.A., University of Minnesota, Morris; Ph.D., University of California, Riverside

*Faculty from numerous disciplines, including anthropology, English, and history.*

### Environmental Science

*Faculty from numerous disciplines, including biology, chemistry, and geology.*

### Environmental Studies

#### Assistant Professor

**Edwin Brands** (2011), B.A., Grinnell College; M.A., Ph.D., University of Iowa

### Instructional Staff

**Clement Loo** (2013), B.A., M.A., University of Calgary; Ph.D., University of Cincinnati

*Faculty from numerous disciplines, including biology, economics, English, and political science.*

### Gender, Women, and Sexuality Studies

*Faculty from numerous disciplines, including English, history, philosophy, and sociology.*

### Human Services

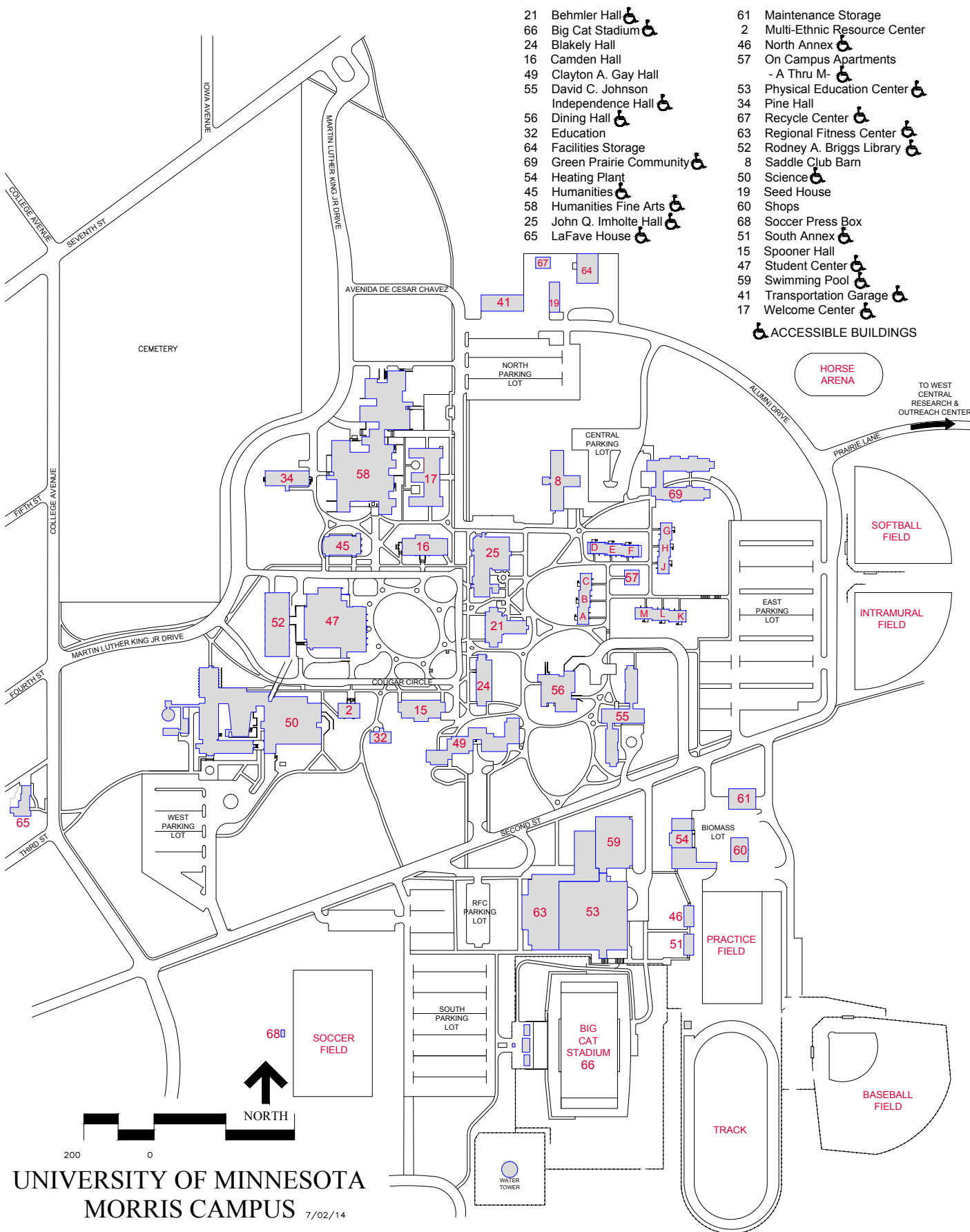
*Faculty from numerous disciplines, including psychology and sociology.*

### Latin American Area Studies

*Faculty from numerous disciplines, including anthropology, history, political science, sociology, and Spanish.*

### Sport Management

*Faculty from numerous disciplines, including sport studies and athletics and management.*



- 21 Behmler Hall
- 66 Big Cat Stadium
- 24 Blakely Hall
- 16 Camden Hall
- 49 Clayton A. Gay Hall
- 55 David C. Johnson Independence Hall
- 56 Dining Hall
- 32 Education
- 64 Facilities Storage
- 69 Green Prairie Community
- 54 Heating Plant
- 45 Humanities
- 58 Humanities Fine Arts
- 25 John Q. Imholte Hall
- 65 LaFave House
- 61 Maintenance Storage
- 2 Multi-Ethnic Resource Center
- 46 North Annex
- 57 On Campus Apartments - A Thru M
- 53 Physical Education Center
- 34 Pine Hall
- 67 Recycle Center
- 63 Regional Fitness Center
- 52 Rodney A. Briggs Library
- 8 Saddle Club Barn
- 50 Science
- 19 Seed House
- 60 Shops
- 68 Soccer Press Box
- 51 South Annex
- 15 Spooner Hall
- 47 Student Center
- 59 Swimming Pool
- 41 Transportation Garage
- 17 Welcome Center

ACCESSIBLE BUILDINGS

HORSE ARENA

TO WEST CENTRAL RESEARCH & OUTREACH CENTER

SOFTBALL FIELD

INTRAMURAL FIELD

BASEBALL FIELD

PRACTICE FIELD

BIG CAT STADIUM 66

680 SOCCER FIELD



NORTH

200 0

UNIVERSITY OF MINNESOTA MORRIS CAMPUS 7/02/14

600 East Fourth Street  
Morris, MN 56267

[morris.umn.edu](http://morris.umn.edu)

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