College of Liberal Arts

This is the College of Liberal Arts section of the 2000-2002 University of Minnesota Undergraduate Catalog.

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At the heart of every great university is a college encompassing the basic disciplines of knowledge. That college at the University of Minnesota is the College of Liberal Arts (CLA). The college was formally established in 1868, 17 years after the founding of the University. CLA's mission is to encourage habits of creative and critical thinking, develop analytical skills, and enable undergraduates to study with researchers at the forefront of defining their fields of study. A liberal arts education provides an excellent foundation for graduates entering the ever-changing world of work.

The social sciences, humanities, and fine arts are housed in CLA. Study and research opportunities are available in more than 60 major areas. In addition to strong programs in disciplines, CLA offers interdisciplinary courses such as women's studies, film studies, and urban studies that draw on the strengths of disciplines and integrate them in new and exciting ways. CLA also offers B.A. degrees in some science programs housed in the Institute of Technology and the College of Biological Sciences. (See the list of majors on page 149 for details.) The B.A. degree may be particularly appropriate for science students who wish to become high school teachers, who would like to pursue careers in scientific writing, or who wish to preserve more flexibility in their programs than the B.S. degree allows.

About 15,000 undergraduate students and about 1,600 graduate students were enrolled in CLA programs in fall 1999. The college is staffed by over 500 permanent faculty whose teaching is informed by the most current research in their fields.

As the port of entry to the University for many students, CLA prides itself on its Student Services unit, which offers academic advising and other services. Student Services staff helps direct students to the many learning opportunities available within CLA and throughout the University and the Twin Cities.

The degree requirements established by the college give students an education solidly based in the liberal arts. Courses that meet the Twin Cities campus-wide liberal education requirements will introduce students to modes of inquiry and subject matter characteristic of the major branches of knowledge, as well as four themes of particular contemporary relevance: international perspectives, cultural diversity, environmental issues, and citizenship and public ethics. In recognition of the importance of communication and the ability to write, students take several writing courses, including a formal first-year composition or rhetoric course and upper level intensive writing courses. The CLA language requirement helps students become proficient in a second language.

A liberal education means not only a breadth of knowledge, but depth and proficiency in a single field of knowledge. Students select a major field and, as part of the study of that discipline, prepare a major project, usually a paper.

### Admission

#### Prospective Student Services

Preadmission advising and assistance are offered by the University's Office of Admissions. If students would like to visit the campus and talk about plans for study at the University, they should contact the Office of Admissions, University of Minnesota, 240 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455 (612-625-2008) <admissions.tc.umn.edu>. Admissions advisers will answer questions, provide information, and arrange meetings with faculty. The Office of Admissions schedules campus tours and information meetings for prospective students. Please call two weeks in advance, if possible.

#### Enrollment Limits

The University of Minnesota has approved enrollment limits for the Twin Cities campus. To remain within those limits, CLA must limit the number of new students it admits. If the college exceeds its enrollment limit, there will be inadequate funding to meet the educational needs of its students. The college will admit as many qualified students as possible without exceeding its projected enrollment limit.

#### Application Procedures

##### Freshman Admission

Freshman applicants are high school graduates or high school seniors who will graduate before they enroll in CLA. These students are freshmen regardless of any college credits they may have completed while in high school such as post-secondary enrollment options credits. High school graduates who have enrolled in a post-secondary institution after graduation are considered transfer applicants for admission purposes, regardless of the number of credits completed. All freshman applicants are considered for admission on the basis of high school rank, satisfaction of preparation requirements, any college courses and grades, and scores on college entrance tests. See “Freshman Admission” in the General Information section of this catalog.

A strong pattern of college preparatory coursework throughout high school may enhance students’ admissibility. Students who do not continue such a pattern of coursework through grade 12 may compromise their chances of admission, particularly if they are in the “individual review” category.

In addition to preparation requirements, the basic criterion for admission has been an index that combines high school rank percentile and standardized test scores. In fall 1999, 64 percent of CLA freshmen ranked in the top quarter of their class or had high school rank percentiles of 75 or higher. The mean high school rank was 80 percent. The mean ACT composite score was 25. The mean SAT verbal score was 599 and mean SAT math score was 600. Applicants are not guaranteed admission even if they match or exceed some or all of these score levels.

##### Transfer Admission

Students who have completed at least 26 semester (39 quarter) credits of transferable college coursework will be considered for admission based on college academic record. High school graduates who have completed less than a full year of college coursework at the time of admission will be considered for admission...
The median high school rank for new CLA honors students is in the 96th percentile.

Degrees/Majors

CLA offers five bachelor’s degrees—bachelor of arts (B.A.), bachelor of fine arts (B.F.A.), bachelor of science (B.S.), bachelor of individualized studies (B.I.S.), and bachelor of music (B.M.).

If students are making satisfactory academic progress, they generally are free to select the major and minor of their choice. Some programs, however, limit the number of majors admitted. See the program descriptions below for more information.

Bachelor of Arts Degree—This degree can be earned through majors in most CLA departments and programs. Its breadth and diversity in general education make it valuable as a base for many kinds of careers or advanced study. CLA offers several professional majors and specializations as well as interdepartmental programs for the B.A.

Bachelor of Fine Arts Degree—The Department of Art and the Dance Program offer the B.F.A. for students who demonstrate superior professional promise. Information about program admission and degree requirements can be obtained from the appropriate department office.

Bachelor of Science Degree—The B.S. degree is offered in five areas: child psychology, economics, geography, sociology, and urban studies. The B.S. provides a more specialized concentration than the B.A.

Bachelor of Individualized Studies Degree—To earn this degree, students propose an individualized program of study composed of three areas of concentration based on their personal academic objectives. Proposals must be evaluated and approved by three faculty advisers.

Bachelor of Music Degree—The School of Music offers the B.M. degree for students who demonstrate superior professional promise in performance, music education, and music therapy.

CLA Degrees Earned Concurrently With Other University of Minnesota Degrees—If students transfer to another college on the Twin Cities campus, they may complete their CLA degree by finishing all CLA degree requirements while pursuing degree work in their new college. Students should contact their college office for more information.

Second Degrees, Second Majors, Minors—If students have earned a bachelor’s degree at another institution, they may earn a CLA bachelor’s degree with a different major by completing all degree requirements, including 30 CLA semester credits. If students are CLA graduates or in the process of earning a CLA degree, they may earn a different CLA bachelor’s degree by completing 30 additional CLA credits and meeting all requirements for the second degree. If students are CLA graduates and interested in completing requirements for a second major,
but not for a second bachelor’s degree in the college, they may complete requirements for another major and have that accomplishment recorded on their official transcript. In addition, students in other colleges may earn majors or minors in CLA.

CLA Majors

Major Sequences—Candidates for all CLA degrees except the B.I.S. must complete a major to gain depth of understanding in an area of study. More than 60 majors are offered in the college. Requirements change from time to time. Check with the undergraduate studies office in the major department for current information.

CLA offers major and minor programs in the following subjects.

| African and Afro-American studies | History |
| American Indian studies | Individualized studies (major only) |
| American studies | Interdepartmental major (major only) |
| Ancient Near Eastern studies (major only) | Italian studies |
| Anthropology | Japanese |
| Architecture | Jewish studies |
| Art | Journalism |
| Art history | Latin |
| Astronomy | Linguistics |
| Biology | Mathematics |
| Chemistry | Microbiology (major only) |
| Chicano studies | Music |
| Child psychology | Music education (major only) |
| Chinese | Music therapy (major only) |
| Classical and Near Eastern archaeology | Philosophy |
| Classical civilization | Physics |
| Computer science | Physiology (major only) |
| Cultural studies and comparative literature | Political science |
| Dance | Psychology |
| Economics | Religious studies |
| English | Russian |
| Film studies | Scandinavian languages and Finnish |
| French studies | Sociology |
| French and Italian studies (major only) | Spanish studies |
| Geography | Spanish and Portuguese studies |
| Geology and geophysics | Speech-communication |
| German studies | Speech and hearing science |
| Global studies | Statistics |
| Greek | Theatre arts |
| Hebrew | Urban studies |
| Students may prepare in CLA for the following professional programs (preparation for these involves one to four years of study in CLA). |
| Architecture | Art history |
| Dental hygiene | Art history |
| Dentistry | Art history |
| Education | Art history |
| Law | Art history |
| Management | Art history |
| Medical technology | Art history |
| Medicine | Art history |
| Mortuary science | Art history |
| Nursing | Art history |
| Occupational therapy | Art history |
| Pharmacy | Art history |
| Physical therapy | Art history |
| Public affairs | Art history |
| Public health | Art history |
| Recreation, park, and leisure studies | Art history |
| Veterinary studies | Art history |

CLA offers additional minor programs in the following subjects.

| Biblical studies |
| Dutch studies |
| East Asia studies |
| Environmental geosciences |
| European area studies |
| Foreign studies |
| History of medicine |
| History of science and technology |
| Humanities in the West |
| Latin American studies |
| Russian area studies |
| South Asian and Middle Eastern area studies |

Major Requirements

Major Status—Majors are programs of concentration. Each represents the judgment of its department about appropriate study of the discipline at the undergraduate level. The department or students’ major adviser may modify individual major programs. Admission to major status in some CLA degree programs requires department permission. See below and Degree Programs for more information on specific degree programs.

Required Preparatory Courses—Most major programs require preparatory or background courses that qualify students to enter advanced major work. Many of these courses satisfy general education requirements. See individual program listings for required preparatory courses.

Major Project—CLA requires that students complete a major project. The project demonstrates analytic and conceptual skills as well as an understanding of the mode of inquiry characteristic of the discipline. For most majors, the format of the project is a paper.

Outside-of-Major Requirement—B.A. programs must include at least 18 3xxx, 4xxx, and 5xxx credits outside the major department. Heavy concentration in a major field that limits breadth of learning may defeat the basic purpose of a liberal education, which encompasses breadth as well as depth of knowledge. Established and individualized interdepartmental majors listed below are exempt from this requirement.

Established Interdepartmental Majors—These majors are offered in Afro-American and African studies, American studies, classical civilization, cultural studies and comparative literature, East Asian studies, European area studies, film studies, individually designed interdepartmental major, international relations, Jewish studies, Latin American studies, Russian area studies, South Asian and Middle Eastern area studies, and urban studies. Requirements are detailed under the major offerings. These majors may be modified in individual cases. Such majors do not require 18 3xxx, 4xxx, and 5xxx credits outside the major department.

Individually Designed Interdepartmental Major—The I.D.I.M. allows students to design a unique program with an interdisciplinary theme or focus tailored to their individual academic interests. It requires approval by the Individualized Programs Office, 345 Fraser Hall, and three faculty advisers. The major combines coursework from three or more CLA departments. A senior project is required to integrate the areas of concentration.

Bachelor of Individualized Studies—If students seek an even broader program of study than the I.D.I.M., they may wish to consider the B.I.S. degree. For this degree, students design an individualized program
made up of three concentrations totaling 50 credits. The program must be evaluated and approved by three faculty advisers. The program must have coherence based on stated academic objectives. This program has much in common with the I.D.I.M.—student initiative in proposing courses, close contact with faculty advisers, highly individualized programs. It differs from the I.D.I.M. in permitting multiple educational objectives rather than a single theme or concentration, and in allowing one concentration outside the college, provided it is relevant to students’ objectives and approved by their advisers. The Bachelor of Individualized Studies Office is in 345 Fraser Hall (612-624-8006). For more information, please see the Degree Programs starting on page 155 of this catalog.

Double Major—Students may earn a second major in CLA. Students interested in pursuing a double major should consult with a CLA advising office to learn what steps are necessary for their areas of interest. Students may also combine a CLA major with a major or minor from another college in the University.

Minor
A minor is an approved concentration of 14 or more 2xxx, 3xxx, 4xxx, and 5xxx credits in a single department or program. It is not a requirement for graduation, but is an option for all students.

Honors Division

115 Johnston Hall (612-624-5522)
The CLA honors division offers freshman/sophomore and junior/senior honors programs to intellectually promising and highly motivated students. Its purpose is to broaden the scope of student learning, encourage full use of student potential, and recognize student accomplishments. Among its offerings are honors courses, small discussion groups for freshmen and sophomores, seminars for juniors and seniors, special advisers, departmental honors plans, and opportunities for advanced research and individual study.

Graduation With Honors—Enrollment in the honors program is required for graduation with the traditional honors designations cum laude, magna cum laude, and summa cum laude. Other graduation criteria include University of Minnesota residence, a grade point average (GPA) of at least 3.50, participation in four honors opportunities, in some instances fulfillment of requirements designated for the major field, and an honors thesis or project.

Honors Courses—Honors courses or special honors sections of regular courses are often small in size and taught by selected teachers. Although grading standards are comparable to those of other courses, topics and materials are approached in greater depth. These courses are designated by an “H” or a “V” after the course number.

Honors Colloquia—These seminar-size discussion groups are led by faculty or advanced graduate students. They are open to all honors freshmen and sophomores. Topics change each semester and vigorous student participation is the norm. Field trips and other special learning methods often characterize the colloquia. They carry credit, but because new topics and hours are selected each semester, they are not listed in this catalog. A list of topics is available in the Honors Program Office.

Honors Seminars—These seminars are open to honors program students who have completed 60 semester credits (other applicants are sometimes admitted when class space permits). In contrast to departmental honors course offerings, which emphasize depth of learning within fields, honors seminars serve the interests of students of high ability but with little background in the subject field. The seminars cover a wide range of topics, often of an interdisciplinary character, and deal with problems and ideas not treated in the regular curricular offerings of the college. Topics are specified in the Class Schedule and descriptions are available in the Honors Program Office.

Freshman-Sophomore Honors Program—Honors students who have earned fewer than 60 semester credits may participate in a program that provides certain educational opportunities: special faculty advisers, special library loan privileges, and assistance by the Honors Program staff in making a variety of premajor decisions. There are honors opportunities both for students who will seek a CLA degree and for preprofessional students who will complete their degrees outside of CLA. Freshmen and sophomores are strongly encouraged to complete at least two honors courses per year. Students who complete three honors opportunities and earn a 3.50 GPA in their freshman and sophomore years receive a certificate and a notation on their transcript.

Junior-Senior Honors Program—If students have completed 60 semester credits and declared their major, they may participate in the honors curriculum in their major field as well as in a variety of academic opportunities, including honors seminars. Students are assisted in scholarship and fellowship matters, especially in preparation for graduate work, and have access to experienced counsel about graduate and professional study. When undertaking a research project, they have special library privileges. Grants are available to help them meet project costs.

Continuation in Honors—The academic progress of honors students is reviewed annually. Students whose grades fall below the level necessary to graduate with honors may be denied continuation in the program.

Departmental Honors Curricula—Most CLA departments provide special honors opportunities for which students must meet special requirements. Information about these offerings as well as about graduation with honors may be obtained from department or program offices or from the Honors Program Office.

Honors Program Office—College records for honors students are kept in 115 Johnston Hall. The office also provides academic advising, procedural information, and other college office services to honors students.

Policies

Scholastic Standing—The Student Scholastic Standing Committee, comprised of administrators and college office staff, interprets and enforces college and University regulations relating to academic affairs. It handles requests for exceptions to registration policies and procedures, transfer of credit policies, and some degree requirements. The committee administers the college’s probation system, monitoring students’ performance and dealing with questions of probation, suspension, and readmission.

The committee seeks to maintain the spirit of the college’s regulations as flexibly as possible and is empowered to make exceptions in cases in which regulations work to students’ educational disadvantage.
Students are urged to consult a committee representative in their college office concerning almost any kind of problem, but especially those they think interfere with their ability to attain their academic objectives. Well-established petition and appeal procedures assure full review of student requests.

**Repetition of High School Work**—In CLA, students normally enroll for mathematics and second language courses for which high school work and the language proficiency test make them eligible. If students think they are not prepared to continue at such a level, they should consult their college office adviser about appropriate placement and course selection.

**Late Cancellation**—CLA students may receive one discretionary course cancellation after the cancellation deadline but before study day. This discretionary cancellation may be used only once during a student’s enrollment at the University. Other late cancellations are approved by the Student Scholastic Standing Committee only when verified extenuating circumstances that prevent a student from completing a course arise after the cancellation deadline. Any cancellation, discretionary or otherwise, after the cancellation deadline must be requested by written petition in the student’s college advising office.

**Scholastic Conduct**—CLA faculty may act on cases involving CLA students in their classes; such action may not exceed modification of a course grade. Instructors must report any action to the conduct committee, and the student is informed of the right to ask for a committee hearing. For information on report and appeal procedures, call the CLA Student Services assistant dean’s office (612-625-3846).

**Retention of Student Records**—Official transcripts are maintained permanently by the Office of the Registrar. The college retains for 10 years the college files of upper division students who left CLA after earning 100 quarter college credits; college files of students who applied for graduation but did not graduate and of students who had filed a degree program plan (senior summary or balance sheet) are kept indefinitely. Student records of graduates are kept for two years following graduation. In preparation for graduate school, students may store recommendations in permanent credential files, which are kept in the Office for Special Learning Opportunities.

**Graduation Requirements**

**General Credit Requirements**

**Credit Requirements**—A minimum of 120 credits acceptable to the college are required for all CLA bachelor’s degrees; 48 of these credits must be in 3xxx, 4xxx, and 5xxx courses.

To earn a CLA degree, students must earn at least 30 semester credits from the University of Minnesota, at least 24 of which must be taken from CLA departments. Some programs require a minimum number of credits taken in the department offering the major. Consult the major program descriptions in this catalog for more information. At least half of the CLA credits applied toward the degree (never fewer than 24) must be graded A-B-C. Students must also complete 20 of their last 30 credits with University of Minnesota, Twin Cities coursework. Credits earned by examination may not be applied toward the required 30 CLA credits.

A total of 6 semester credits in applied music, physical education, and study skills courses may be applied toward the degree. Credits from typing, word processing, shorthand, first aid, and courses clearly remedial or vocational in nature may not be applied toward any credit requirements.

Credit will not be awarded twice for the same course or for two substantially similar courses.

**Degree Requirements After an Absence**—Students who have not attended CLA for more than two years must fulfill current graduation requirements.

If *less than two years* have passed since students last attended CLA, they are under the requirements applicable to them before their absence. Students who plan to leave the University for more than two semesters must request a leave of absence through their college advising office.

**Liberal Education Requirements**

The liberal education curriculum that applies to students’ degree programs depends on the date they are admitted to CLA.

**Twin Cities Campus Liberal Education Curriculum**—The University of Minnesota, Twin Cities liberal education requirements apply to all students entering a baccalaureate degree program in fall quarter 1996 and later. If students entered a degree program before fall 1996 and are uncertain whether or not the liberal education requirements apply, they should check with their academic adviser. See the Policies section or page 35 of this catalog for a description of the liberal education curriculum.

**Second Language Requirement**

The study of a second language is considered essential for a liberal education. CLA expects students to have begun second language study in high school or earlier.

In many cases, knowledge of a second language gained before entering CLA may be used to meet part or all of the language requirement. If students are unsure about their level of proficiency, they should consult their adviser or the language department for placement assistance. Normally, one to two years of high school language study equals one semester of college study.

Qualified students may meet part or all of the entrance and graduation requirements by passing examinations arranged with appropriate departments. (These proficiency examinations do not yield college credits.)

No credit is granted for first- or second-year courses in a student’s primary language of secondary school instruction. Students who ear at least a C- in a Twin Cities campus language sequence course may request to have preceding courses in the sequence (second-semester level or higher) posted retroactively if they have not already received college credit for equivalent courses at another institution. Contact your advising office for more information.

Students planning on the B.A. degree should study a language for three years in high school.

**CLA Entrance Requirement**—All B.A., art B.F.A., and B.I.S. students who wish to register for French, German, or Spanish courses beyond the second semester must pass the appropriate entrance proficiency examination.

Students who meet the entrance requirement may continue their study at higher levels in the same language or may begin study in another language. Contact the appropriate language department for testing and placement information.
Graduation Requirement—The graduation requirement for the B.A., B.F.A. in art, and B.I.S. degrees requires students to demonstrate proficiency usually attained after the first four semesters of college study in one language by passing a graduation proficiency examination that tests reading, writing, listening, and speaking skills.

Languages for which second language requirement graduation proficiency examinations are available include American Sign Language, Arabic, Biblical Greek, Chinese, Classical Greek, Dakota, Danish, Dutch, Finnish, French, German, Hindi, Irish, Italian, Japanese, Latin, Marathi, modern Greek, modern Hebrew, Norwegian, Ojibwe, Polish, Portuguese, Russian, Spanish, and Swedish.

Advising

College advisers in academic departments and college offices offer students individual help in planning their studies and meeting other concerns they might have about college life. Students are assigned to a college advising office for assistance with course selection, registration, vocational and personal decisions, financial problems, and involvement in campus activities.

Based on their preferred interest or major, students are assigned to one of nine student communities (organized by groups of majors) where they remain throughout their CLA career. Students are also assigned to a specific team of advisers, including their academic adviser, peer adviser, major adviser, and a career services liaison. Basic services are designed to meet students’ developmental needs, support students’ search for fields of study appropriate to their visions and potential, monitor their academic progress, and help them to be more informed about their choices.

Wise use of the advising system can make students’ college experience more satisfying and productive. Students should take pertinent records and materials to their advising appointments, and prepare for program planning sessions by giving careful thought to possible course selections, program schedules, and short- and long-term education and career goals and reviewing their transcript or computerized degree audit. Students should expect both support and challenge from their adviser.

CLA Student Services Offices

Students’ college records are kept in their assigned student community; this community provides advising services and procedural information. To contact a student community or to find which majors are assigned to which communities, contact the assistant dean’s office for CLA Student Services at 612-625-3846.

Advising for Special Programs

Honors Division—115 Johnston Hall (612-624-5522) <cla.umn.edu/honors/>

Martin Luther King Program—19 Johnston Hall (612-625-2300) <www.mlk.umn.edu/>

The Martin Luther King Program provides advising, support services, and instruction through tutorials, introductory course sections, support groups, computerized instruction, study skills workshops, and career seminars. Students enrolled in the program are encouraged to maximize their potential through educationally enriching learning experiences.

Special Learning Opportunities and Resources

Office for Special Learning Opportunities (OSLO)

220 Johnston Hall and 345 Fraser Hall (612-624-7577) <www.oslo.umn.edu/>

OSLO coordinates career services, internships, and community involvement opportunities for CLA students and assists them with independent and directed study options. OSLO’s Web site “CLA Link” <http://oslo.cla.umn.edu> enables students to post their resumes online and search job, internship, and volunteer opportunities. OSLO administers various other programs such as the National Student Exchange, Metro Urban Studies Term (MUST), City Arts, and facilitates student participation in other domestic study programs.

Internships—Internships are an important vehicle for exploring questions and issues raised in the classroom. They allow students to gain experience in a particular field and learn more about possible career alternatives. Internships are available in all fields of study. Some are paid and others are volunteer opportunities. Internships are available in government, business, human services, science and technology, health care, ecology, education, the arts, broadcasting, and publishing.

Academic credit for learning acquired through internship experiences is available through several CLA departments, including some of the courses available under the Interdepartmental Study (ID) designator. Some financial support is available from the CLA Internship Grant Program, which funds students doing otherwise unpaid internships in the community. See an OSLO adviser for information on both credit and the grant program.
Community Involvement Programs (CIP)—CIP facilitates student and faculty involvement in local communities. Program goals include understanding social barriers and inequalities, learning practices of reflective leadership, contributing toward educational and personal growth, and enriching multicultural understanding. Community-based learning opportunities can be part of academic courses or cocurricular experiences that enrich and enhance an academic program. Students can select from a variety of opportunities and environments, including direct service work, advocacy, and organizing community-building activities in schools, community centers, health-care settings, local arts organizations, and other nonprofit and government groups.

Alternative Credit Registration Options
Most departments offer opportunities for independent study of regular courses or subjects not covered in the curriculum. For general information and permission forms, contact the OSLO office. Independent study is completed under the direction of a faculty member. Registration for this course requires instructor, department, and college approval.

Y Registration—Students enroll in an established course and study independently without attending class. Each student and instructor agree on conditions for examinations and coursework. Regular fees, deadlines, and grading policies apply.

X Registration—Students earn extra credits in a course they are taking or have previously taken, by exploring more deeply a topic related to the course’s content. Contact your department or the OSLO Office for information about other alternative credit registration options.

FLAC and FLIP
Foreign Languages Across the Curriculum (FLAC)—FLAC allows students to apply their knowledge of a second language to the study of a particular discipline. FLAC courses attach a one credit language “trailer” to an existing course. In addition to regular English language coursework, students participate in a section meeting conducted in a second language.

Foreign Language Immersion Program (FLIP)—FLIP gives students an opportunity to strengthen their language skills in French, German, or Spanish by offering courses taught entirely in a second language. FLIP students can experience immersion by carrying an entire semester course load (typically 15 credits) in French, German, or Spanish. Alternatively, students may elect to enroll in only a portion of the FLIP.

For further information about FLAC or FLIP, please contact the Institute of Global Studies at 612-624-9007.

Special Achievement
Each semester, the college publicly recognizes superior academic performance through transcript memoranda, notices posted on the first floor of Johnston Hall, and announcements to academic departments.

To appear on the Dean’s List, students must complete at least 12 credits of A-F registration and earn a semester GPA of at least 3.67.

College of Continuing Education registrations are included in assigning these honors. If students believe they qualify for either list but are not included, they should consult the CLA Assistant Dean for Student Services office in 106 Johnston Hall (612-625-3846).

International Programs
CLA credit for study abroad may be earned through independent study or a variety of formal programs. See information on study abroad options in the General Information section of this catalog or contact the Global Campus, 230 Heller Hall (612-626-9000).

Career Information
Career services are provided by the Office for Special Learning Opportunities, 220 Johnston Hall and 345 Fraser Hall (612-624-7577).

Career Services—The skills and experience for developing and later managing a career need to be learned while students are in school. CLA provides assistance to current students and alumni in relating academic interests to career options, identifying career goals, and learning effective job-hunting skills. CLA emphasizes involvement in the kinds of experience students will need to be competitive in the work world of the 21st century.

OSLO provides workshops and individual assistance on résumé writing, interviewing, job-hunting, and networking; courses on career exploration and strategic career planning; a career resource center offering computer access and reference materials for occupation and company research, and World Wide Web and other online career resources; and an annual career day. Students are encouraged to use these services and resources throughout their college career and afterward.

Graduate and Professional School Assistance—Many CLA graduates choose to attend graduate or professional schools. OSLO provides an annual graduate and professional school fair, workshops on how to apply for graduate study and other topics, graduate school information, prelaw advising, and graduate and professional school credential files for students actively involved in the application process.

Student Organization
Student Board
12 Johnston Hall (phone 612-626-0348, e-mail clasb@tc.umn.edu
Web site <www.tc.umn.edu/cla> Student Board

The College of Liberal Arts Student Board (CLA-SB) is the college’s student governance body. The board is the official channel through which recommendations from the CLA student body are brought to the college. CLA-SB also represents students with seats on many committees and deals with nomination or election of students to seats on many others. These governing councils and committees collectively deal with virtually all aspects of CLA policy.

One primary responsibility of CLA-SB is to maintain contact with department student organizations.

All students are encouraged to participate in the operations of the board and to contribute to decisions affecting the college. The board is composed of elected and appointed members. The board recognizes and practices affirmative action.
Directory
(area code 612)

**Department of Afro-American and African Studies**
808 Social Sciences Building
624-9847

**Department of American Indian Studies**
107 Scott Hall
624-1338

**Program in American Studies**
104 Scott Hall
624-4190

**Department of Anthropology**
395 Hubert H. Humphrey Center
625-3400

**Interdisciplinary Archaeological Studies**
395 Hubert H. Humphrey Center
625-1062

**Department of Art**
208 Art Building
625-8096

**Department of Art History**
338 Heller Hall
624-4500

**Center for Austrian Studies**
314 Social Sciences Building
624-981

**Department of Chicano Studies**
107 Scott Hall
624-6309

**Classical Civilization Program**
300 Folwell Hall
625-7565

**Department of Classical and Near Eastern Studies**
330 Folwell Hall
625-5353

**Center for Cognitive Sciences**
205 Elliott Hall
625-9367

**Department of Communication Disorders**
115 Sherwin Hall
624-3322

**Department of Cultural Studies and Comparative Literature**
350 Folwell Hall
624-8099

**Center for Early Modern History**
715 Social Sciences Building
624-9813

**Department of Economics**
1035 Heller Hall
625-6353

**Department of English**
207 Lind Hall
625-3363

**Minnesota English Center**
315 Nolte Hall
624-1503

**Center for Advanced Feminist Studies**
414 Ford Hall
624-6310

**Department of French and Italian**
260 Folwell Hall
624-4308

**Department of Geography**
414 Social Sciences Building
625-6080

**Department of German, Scandinavian, and Dutch**
205 Folwell Hall
625-2080

**Institute for Global Studies**
214 Social Sciences Building
624-9007

**Area Studies Programs**
- 214 Social Sciences Building
  626-1821

**Center for German and European Studies**
309 Social Sciences Building
625-1557

**Modern Greek Studies**
325 Social Sciences Building
624-4526

**International Relations Program**
214 Social Sciences Building
624-7346

**Department of History**
614 Social Sciences Building
624-2800

**Center for Holocaust and Genocide Studies**
100 Nolte
626-2235

**Humanities Institute**
101 Nolte
624-7032

**Humanities Program**
831 Heller Hall
625-6365

**Immigration History Research Center**
311 Anderson Library
625-4800

**Individualized Degree Programs**
345 Fraser Hall
624-8006

**Dworsky Center for Jewish Studies**
330 Folwell Hall
625-5353

**School of Journalism and Mass Communication**
111 Murphy Hall
625-9824

**China Times Center for Media and Social Studies**
400 Murphy Hall
626-7446

**Minnesota Journalism Center**
421 Murphy Hall
625-3480

**Silva Center for Study of Media Ethics and Law**
421 Murphy Hall
625-3421

**Center for Advanced Research on Language Acquisition**
1313 5th Street S.E., Minneapolis
627-1870

**Language Center**
51 Folwell Hall
624-6811

**Institute of Linguistics and Asian and Slavic Languages and Literatures**
214 Nolte
624-3331

**MacArthur Interdisciplinary Program on Peace and International Cooperation**
260 Social Sciences Building
624-0832

**Center for Medieval Studies**
131 Nolte
626-0805

**School of Music**
200 Ferguson Hall
624-5093

**Department of Philosophy**
831 Heller Hall
625-6563

**Minnesota Center for Philosophy of Science**
746 Heller Hall
625-6635

**Center for Political Psychology**
1282 Social Sciences Building
624-0864

**Department of Political Science**
1414 Social Sciences Building
624-4144

**Department of Psychology**
N218 Elliott Hall
625-4042

**Religious Studies Program**
330 Folwell Hall
625-5353

**Social Science Research Facility**
23 Blegen Hall
625-8556

**Department of Sociology**
909 Social Sciences Building
624-4300

**Life Course Center**
1014 Social Sciences Building
624-6333

**Department of Spanish and Portuguese Studies**
34 Folwell Hall
625-5858

**Department of Speech-Communication**
225 Ford Hall
624-5800

**School of Statistics**
313B Ford Hall
625-8046

**Applied Statistics**
146 Classroom-Office Building
625-7030

**Statistical Center**
146 Classroom-Office Building
625-8777

**Statistical Clinic**
146 Classroom-Office Building
625-3121

**Theoretical Statistics**
313B Ford Hall
625-7300

**Department of Theatre Arts and Dance**
580 Rarig Center
625-6696

**Dance Program**
Barbara Barker Dance Center
624-6060

**University Theatre**
110 Rarig Center
625-5380

**Urban Studies Program**
348 Social Sciences Building
626-1626

**Department of Women's Studies**
425 Ford Hall
624-6006

**Center for Interdisciplinary Studies of Writing**
227 Lind Hall
626-7579

**Student Board**
172 Norris Hall
626-0348
Afro-American and African Studies

Department of Afro-American and African Studies
B.A.

This major offers four curriculum tracks. Students choose one track and usually select a concentration such as public policy/development studies, literature and the arts, or a more traditional disciplinary focus. The integrated studies of African people track focuses on African peoples and cultures of Africa and the western hemisphere. The Afro-American studies track provides a comprehensive knowledge of Afro-American history, psycho-social issues, and culture. The African studies track focuses on the history, social sciences, and cultures of Africa. The Arabic-Islamic Africa track focuses on the Arabic language and the history and culture of Islamic Africa. All four tracks encourage students to study a language related to Africa and to take advantage of opportunities to study and work there.

Preparatory Coursework—Depending on their chosen track, all students complete Afro 1011—Introduction to Afro-American Studies or Afro 1021—Introduction to Africa.

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 30 credits in the major. Students complete 30-36 XXX, 4XXX, or 5XXX credits, including a 3XXX, 4XXX, or 5XXX statistics or methods course approved by the undergraduate adviser; sequences in Afro-American history and/or African history; 15 credits in group concentration and breadth requirements; at least 3 credits from a course that examines gender issues; one 4XXX or 5XXX level seminar or proseminar; and a senior paper. Students may receive a maximum of 6 credits toward the major for approved independent study. For approved internships students may receive up to 3 credits toward the minor.

Minor Requirements

Students must satisfactorily complete 18 credits from 3XXX, 4XXX, or 5XXX courses. No more than 4 credits may be credited toward the minor for language study, and no more than 3 credits may be accepted from directed/ independent study. For approved internships students may receive up to 3 credits toward the minor.

American Indian Studies

Department of American Indian Studies
B.A.

American Indian studies provides a multidisciplinary understanding of the history and present situation of the native peoples of the United States and Canada. The program emphasizes the interrelations among history, culture, language, literature, the arts, philosophy, religion, political and social forces, and the legal status and sovereignty of Indian nations. Two tracks in the major (language focus and non-language focus) and a minor are offered.

Preparatory Coursework—Students take AmlIn 1001—Introduction to American Indian Studies.

Degree Requirements

Students must complete at least 120 credits to graduate, including AmlIn 1001—Introduction to American Indian Studies and at least 30 additional credits in the major. Both language and non-language focus students must take courses from Group 2: Tribal Arts and Humanities, Group 3: Culture and History, and Group 4: Political and Social Issues. All students must also complete a senior project.

Required Courses

Language Focus

Four-course (16 credits) sequence in Dakota (AmlIn 1101-1102-3103-3104) or Ojibwe (AmlIn 1121-1122-3123-3124) language

At least 18 more credits, including at least 3 credits from each of the following:
- Group 2: AmlIn 3201, 3301, 3401, 4201, 4402
- Group 3: AmlIn 3701, 3711, 3871, 3872, 3876, 4721
- Group 4: AmlIn 4501, 4511, 4515

Non-Language Focus

At least 30 credits, including at least 6 credits from each of the following:
- Group 2: AmlIn 3201, 3301, 3401, 4201, 4402
- Group 3: AmlIn 3701, 3711, 3871, 3872, 3876, 4721
- Group 4: AmlIn 4501, 4511, 4515

Final Project

The CLA senior project requirement may be satisfied by any one of the following courses: AmlIn 4991, 4994, or 4996.

Minor Requirements

Students take AmlIn 1001—Introduction to American Indian Studies and at least 15 upper division credits approved by the department adviser, including at least 3 credits from each of the following:
- Group 2: AmlIn 3201, 3301, 3401, 4201, 4402
- Group 3: AmlIn 3701, 3711, 3871, 3872, 3876, 4721
- Group 4: AmlIn 4501, 4511, 4515
American Studies

Program in American Studies

B.A.
American studies is the interdisciplinary study of American culture(s). Students study U.S. cultures and their interactions and explore the major issues and problems of American society by examining the arts, history, politics, and literature of the diverse peoples of the United States.

Preparatory Coursework—Students take two of the following background courses: AmSt 1001, 1002, 3111, or 3113.

Degree Requirements
To complete the B.A., students must complete at least 120 credits. A minimum of 39 of these credits must include courses in American studies, literature, history, and an additional area of American society plus one course in world cultures. Four courses within this major sequence must be concerned with ethnic or women’s studies.

Required Courses
AmSt 3299—Junior Proseminar
AmSt 3301-3302—Senior Proseminar

Electives—These courses are chosen by the student in consultation with the undergraduate adviser. Many courses in a variety of departments are possible, but the student is expected to choose courses forming a coherent course of study, including one course at the 3xxx level or above that focuses on a non-U.S. culture or society.

Final Project
All seniors must complete a thesis written in conjunction with the senior proseminar (AmSt 3301-3302). Some internships may be used to satisfy major requirements.

Minor Requirements
Students take at least 15 credits of American studies courses. All courses must be at the 3xxx level or above, with a grade of C- or better.

Ancient Near Eastern Studies

Department of Classical and Near Eastern Studies

B.A.
The study of the ancient Near East is the study of the civilizations of ancient Mesopotamia, Syria, Israel, Egypt and Persia. Students study the languages, literatures, and material remains of the great civilizations of the fertile crescent that have made lasting contributions in law, religion, myth, monumental architecture, art, and the sciences.

Preparatory Coursework—Students intending to major in ancient Near Eastern studies are required to complete Afro 3102—Intermediate Arabic II or Hebr 3012—Intermediate Hebrew II.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 30 credits in the major. These credits include an additional Near Eastern language from the list below, courses chosen from anthropology, archaeology, art history, linguistics, literature, and completion of a major project.

Required Courses

Language (one of the following two-course sequences)
- Akka 5011-5012
- Arm 5011-5012
- Copt 5001-5002
- Sum 5011-5012

Art History and Archaeology
- Clas 3008—History of Ancient Art
- Clas 3088 or 3089—Archaeology in Biblical Lands
- ArH 3142—Art of Egypt

Social Sciences (two courses from the following)
- Anth 3001, 3009, 3011

Linguistics
- Ling 3001—Introduction to Linguistics
- Ling 3301—Introduction to Historical Linguistics

Final Project
A major project is required, including registration in ANE 3951 (1-4 cr). Double majors in ancient Near Eastern studies and Hebrew complete only one project. The project generally takes the form of a paper, but other forms of a project may be considered.

Anthropology

Department of Anthropology

B.A.
Anthropology is the study of human societies and cultures, past and present. Anthropologists are particularly interested in the connections between pervasive cultural forms and social institutions on the one hand, and the experience of everyday life on the other. Anthropological study encourages critical perspectives on one’s own social forms and cultural assumptions, and on forms of difference that cut across societies and cultures.

Preparatory Coursework—Students must have completed both Anth 1001—Human Origins and Anth 1003—Understanding Cultures with a C- or better.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 30 credits in the major. In general, all students take introductory-level courses in both sociocultural anthropology and archaeology. Students wishing to concentrate in sociocultural anthropology take an intermediate-level and advanced course in method and theory in sociocultural anthropology; archaeology students take an intermediate-level and advanced-level course in archaeological theory and methods. All students take either a senior seminar, for which they write a substantial research paper, or an individualized senior research project carried out under the supervision of a faculty member. All students take four electives, one in each of the following three areas: advanced approaches (theoretical and methodological approaches); ethnography and regional studies; and institutions and issues.

Required Courses

Introductory Courses
- Anth 1001—Human Origins
  and Anth 1003—Understanding Cultures
- or Anth 1011—Human Origins (Honors)
  and Anth 1013—Understanding Cultures (Honors)

Intermediate Method and Theory Courses
- Archaeology students: Anth 3001—Introduction to Archaeology
- Sociocultural anthropology students: Anth 3003—Cultural Anthropology
Advanced Method and Theory Courses
Archaeology students: Anth 4001—Advanced Method and Theory in Archaeology
or Anth 4900—Topics in Archaeology: Seminar, as approved by the director of undergraduate studies
Sociocultural anthropology students: Anth 4003—Contemporary Perspectives in Cultural Anthropology

Senior Seminar/Project
Anth 4011—Senior Seminar
or Anth 4013—Senior Project
Anth 4013 is required for honors students; other seniors can choose between the two.

Anthropology Electives
Four courses; at least one from each of the following three categories—

1. Advanced approaches—Anth 3005, 3007, 3009, 3221, 3310, 4015, 4019, 4021, 4023, 4025, 4029, 4031, 4033, 4035
2. Ethnographic and regional studies—Anth 3010, 3011, 3013, 3017, 3019, 3020, 3023, 3025, 3027, 3029, 3031, 4043, 4045, 4047
3. Institutions and issues—Anth 3041, 3043, 3045, 3047, 4051, 4053, 4057, 4061, 4065, 4067, 4069, 4071, 4073, 4980, 4991, 4992, 4993, 4994

Electives—
Clas 5340—Practicum in Archaeological Field and Computer Techniques
Clas 5120—Field Research in Archaeology
Clas 5340—Practicum in Archaeological Field and Computer Techniques

Final Project
Anth 4011—Senior Seminar or Anth 4013—Senior Project. Anth 4011 is an in-depth examination of a prominent topic or issue in sociocultural anthropology or archaeology; students who take the senior seminar are required to write a substantial (i.e., 20 to 25 page) research paper to complete the course. Anth 4013 is an individualized research project, in many cases based on an internship or fieldwork, which students design and conduct under the supervision of a faculty member. Anth 4013 is required for honors students; other seniors can choose between Anth 4011 and 4013.

Minor Requirements
Students take at least 14 credits of anthropology courses at the 3xxx level or above. Specific coursework is worked out in consultation with the director of undergraduate studies.

Architecture

Department of Architecture

B.A.
See the College of Architecture and Landscape Architecture section for the B.S.Arch. program.

Architecture encompasses the making and study of the buildings and environment that we inhabit. The concerns of architecture involve a wide variety of areas of study including the art of representing built projects through drawings and computer graphics; the technology of building structure, building materials, and natural and mechanical systems; the history, theory, and art of making, using, and understanding buildings as cultural artifacts for human use; and the practice of architecture in the context of urban form and business economics.

The bachelor of arts (B.A.) degree with a major in architecture provides instruction in history, representation, design, theory, and technology emphasizing the development of architecture as a language of form, space, and order. The B.A. with a major in architecture requires an understanding of social, cultural, and physical contexts as a foundation for the examination of the methods, values, precedents, and material reality characteristic of the process of shaping natural and built environments. The major combines core prerequisites with a broad introduction to architecture, including required courses in representation, history, theory, and design processes.

The B.A. introduces the study of architecture in the context of a liberal arts education. It may be used as preparation for professional study in architecture or related fields at the graduate level, or for employment in architecture related fields that do not require a professional degree. The undergraduate major establishes a strong design foundation that serves a diversity of careers, and provides flexibility as individual opportunities change. A master’s degree in architecture is required to qualify for licensure.

Admission Requirements—Students apply to the major the semester they will complete 55-60 credits. Students are admitted to the major based on space availability and academic record.

Application deadlines are November 1, March 1, and August 1. Students complete the following steps before an application deadline:

1. Complete all required architecture and general education courses listed under “Preparation for the Major” and liberal education requirements totaling a minimum of 55-60 credits (may include current enrollment).
2. Meet with their CLA adviser to complete the Pre-Architecture Planning Sheet. (Premajor Advising, 30 Johnston Hall, 612-624-9006; Martin Luther King Program [MLK], 19 Johnston Hall, 612-625-2300; CLA Honors Program, 115 Johnston Hall, 612-624-5522)
3. Meet with the Department of Architecture undergraduate adviser in the CALA Office of Student Services, 612-624-7866. Bring a copy of the completed Pre-Architecture Planning Sheet and a current unofficial transcript to the appointment.

Degree Requirements
To complete the B.A., students must complete at least 120 credits: 60 credits of pre-architecture study followed by 60 credits of coursework after admission to the major. At least 39 credits must be in the major.

During their B.A. architectural studies, students should maintain a portfolio of originals or duplications of all freehand drawings, projects, and architecture studio designs. A portfolio is required for application to the graduate professional degree program.

All architecture-designated courses (Arch) and the required general education courses in math, physics, and English composition must be taken A-F with grades of C- or better to satisfy degree requirements and to progress in sequence courses.

Required Courses
Preparation for the Major (31 cr)

Architectural Courses (18 cr)

Representation
Arch 1301—Introduction to Drawing in Architecture and Landscape Architecture (3 cr)

History and Theory
Arch 1401—The Designed Environment (3 cr)
Arch 3401—Environmental Design and the Sociocultural Context (3 cr)
Arch 3411—Architectural History to 1750 (3 cr)
Arch 3412—Architectural History since 1750 (3 cr)
LA 3501—Environmental Design and its Biological and Physical Context (3 cr)
Required General Education Courses (13 cr)
EngC 1011—University Writing and Critical Reading (4 cr)
Math 1142—Short Calculus (4 cr)
or
Math 1271—Calculus I (4 cr)
Phys 1101—Fundamental Physics I (4 cr)
or
Phys 1201—General Physics I (5 cr)

Architecture Major Requirements (21 cr)

Representation
Arch 3301—Drawing for Design in Architecture (3 cr)

Design
Arch 5281—Undergraduate Architecture Studio I (6 cr)
Arch 5282—Undergraduate Architecture Studio II (6 cr)

Electives
Arch 5xxx—Student’s choice within area of interest (6 cr minimum)
Upper division courses outside of architecture (18 cr minimum)

Minor Requirements
An undergraduate minor in architecture introduces the foundational ideas of the discipline as a social, cultural, historic, and environmental construct. An undergraduate minor in architecture requires a minimum of 18 credits. A minimum grade of C- is required in all courses taken for the minor. Nine of the 18 credits are in three required courses:

Arch 1401—The Designed Environment (3 cr)
Arch 3401—Environmental Design and the Sociocultural Context (3 cr)
LA 3501—Environmental Design and its Biological and Physical Context (3 cr)

Nine credits are open to the student’s selection within an interest area and must be in upper division Arch courses (3xxx-5xxx). See an architecture adviser in 110 Arch for more information and to declare the minor. A maximum of 9 transfer credits may be used toward the minor. A maximum of three courses taken for a major degree may also be used toward the minor.

Accelerated Status in Architecture
See B.S.Arch. under the College of Architecture and Landscape Architecture.

Art

Department of Art
The Department of Art offers two undergraduate degrees: a bachelor of arts (B.A.) and a bachelor of fine arts (B.F.A.).
The B.A. program provides instruction in the visual arts by emphasizing the development of visual awareness and expression through hands-on involvement in the creative process. In the introductory studio courses, students become familiar with the various materials and concepts used to understand the nature of the visual language. Students then choose additional courses from such areas as drawing, painting, ceramics, printmaking, electronic art, photography, sculpture, papermaking and book arts, and the critical theory of art.
The B.F.A. is a selective art program providing in-depth instruction in the visual arts through a high concentration of coursework in the Department of Art. Admission is based on portfolio evaluation. The B.F.A. is oriented toward professional practice or admission to a master’s degree program.

B.A.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 39 credits in the major.
Art majors complete four core (1xxx) courses, at 4 credits each, including the introductory course in visual arts, a course in two-dimensional expression, a course in three-dimensional concepts, and a course in a reproducible media.

Required Courses
ArtS 1001—Introduction to Visual Arts
Two-dimensional expression:
ArtS 1101—Drawing
or
ArtS 1102—Painting

Three-dimensional concepts:
ArtS 1301—Sculpture
or
ArtS 1801—Ceramics

Reproducible media:
ArtS 1501—Printmaking
or
ArtS 1601—Electronic Art
or
ArtS 1701—Photography
15 cr ArtS 3xxx or above
6 cr ArtS (3 cr must be 3xxx or above)
All courses from the Department of Art History may apply to the art history requirement in the major. Adviser-approved, individual courses from the University’s Weisman Art Museum are also eligible.

The University’s Weisman Art Museum is a stainless-steel spectacle that overlooks the Mississippi River and includes “five of the most gorgeous galleries on earth,” according to The New York Times.
Departments of American Indian Studies, Anthropology, History, Cultural Studies and Comparative Literature, and Women’s Studies may also be applied to the art history requirement as they concern issues and topics germane to the history of the visual arts.

Final Project
Registration for ArtS 3444—Major project (1 cr) is required in the senior year.

B.F.A.
Admission Requirements—Art majors may apply to the B.F.A. degree track after completing the five core courses required in the major. Application is made by submitting a portfolio of 10-12 slides to a faculty committee. A faculty adviser is chosen upon admission to the B.F.A. program.

Degree Requirements
To complete the B.F.A., students must complete at least 126 credits, including at least 68 credits in the major. Because the B.F.A. track includes the same liberal education requirements as the B.A., including proficiency in a second language, there is an increase in total credits.

Students complete five core (1xxx) courses at 4 credits each, including the introduction to visual arts, a course in two-dimension expression, a course in three-dimensional concepts, a course in the reproducible media, and an elective ArtS course at the 1xxx level.

Major coursework requires ArtS 3401 (3 credits), ArtS 5400 (3 credits), ArtS 5444 (3 credits), three courses in the history of art, an internship experience (1-3 credits), and a minimum of 30 credits (10 courses) in art at 3xxx or above.

An internship with a local or national art organization or an apprenticeship with an established artist recognized in the field is required, usually in the junior or senior year.

In their final semester, B.F.A. candidates participate in a solo or small group exhibition that is reviewed by faculty. All coursework for the major must be taken A-F. Only grades of C- or above apply to the major.

Required Courses
Arts 1001—Introduction to Visual Arts
Two-dimensional expression: Arts 1101—Drawing
or Arts 1102—Painting
Three-dimensional concepts: ArtS 1301—Sculpture
or ArtS 1801—Ceramics
Reproducible media: ArtS 1501—Printmaking
or ArtS 1601—Electronic Art
or ArtS 1701—Photography
ArtS 3401—Critical Theories and Their Construction From a Studio Perspective
Arts 3496—Internship in the Arts
ArtS 5400—Seminar: Concepts and Practices in Art
32 cr ArtS 3xxx or above
9 cr ArtH (6 cr must be 3xxx or above)

All courses from the Department of Art History may apply to the art history requirement in the major. Adviser-approved, individual courses from the Departments of American Indian Studies, Anthropology, History, Cultural Studies and Comparative Literature, and Women’s Studies may also be applied to the art history requirement as they concern issues and topics germane to the history of the visual arts.

Final Project
B.F.A. candidates must participate in a solo or small group exhibition at an adviser-approved gallery or exhibition space during the final semester.

Minor Requirements
A minor in art introduces students to the creative process and visual thinking. All minor coursework must be taken A-F. Only grades of C- or above will apply to the minor. The undergraduate minor in art requires a minimum of 20 credits, as follows:

Arts 1001—Introduction to Visual Arts (this course must be completed before taking any upper level art courses).

One course from the 1xxx ArtS electives (1101, 1102, 1301, 1501, 1505, 1601, 1701, 1801)

Three ArtS courses at 3xxx or above (must have appropriate prerequisites). One of these elective courses may be an additional 1xxx elective if a second media area is desired.

One elective course in art history at 3xxx or above.

Art History

Department of Art History

B.A.

Using a wide variety of methodological approaches, art history faculty help students develop an awareness and knowledge of the visual environments from all periods of history. All 1xxx courses and most 3xxx courses do not have prerequisites and are intended for general audiences. Students who intend to apply for graduate school are strongly encouraged to take as many 5xxx courses from as many different professors as possible.

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 29 credits in the major. All courses used to fulfill major requirements must be taken A-F; independent study courses may not be used.

Required Courses

One course (4 cr) in art practice (consult the director of undergraduate studies)
Three courses (12 cr) selected from the following: ArtH 3005, 3008, 3009, 3011, 3012, 3013, 3014, 3015, 3921

Four additional art history lecture courses (minimum of 12 cr), including at least two 5xxx courses.

Electives—Some courses from the Departments of American Indian Studies, American Studies, Architecture, Classical Civilization, Classical and Near Eastern Studies, East Asian Studies, and Medieval Studies may be applied toward the major. Consult the director of undergraduate studies.

Final Project

ArtH 3971—Major Project or ArtH 3973—Honors Major Project (1 cr). In this course, the research paper required for any 5xxx course or for the junior-senior seminar is developed into a major project, a polished research paper of about 15 pages with notes, bibliography, and illustrations.

Minor Requirements

The art history minor consists of at least 18 credits distributed as follows:

Three courses (12 cr) selected from the following: ArtH 3005, 3008, 3009, 3011, 3012, 3013, 3014, 3015, 3921

Two 5xxx art history lecture courses (minimum of 6 cr)

All courses for the minor must be taken A-F; independent study courses may not be used.
Astronomy

Department of Astronomy

B.A.
The program develops the skills necessary to tackle complex and ill-defined problems within the physical sciences. The astronomy program prepares students for careers in several broad areas. The B.A. is aimed primarily at students interested in secondary education in the physical sciences, science policy, and science and technical writing. The B.A. can also prepare students to continue their studies in astronomy in graduate school as well.

Preparatory Coursework—Students take Math 1271-1272 or Math 1371-1372 or Math 1571-1572 (8-10 cr); Math 2243 and 2263 (8 cr); and Phys 1301-1302-2303 or Phys 1401-1402-2403 (12 cr) before being admitted to the major. Ast 1011—Exploring the Universe, Honors is recommended but not required.

Degree Requirements
To complete the B.A., students must complete at least 120 credits. The number of credits completed in the major varies depending on a student’s specialization, but at least 15 credits must be taken with the Ast designator.

The astronomy degree has several different tracks depending on the area of specialization the student wishes to pursue. Each of these tracks has the same core math, physics, and astrophysics requirements. In addition to these core courses, each track requires additional credits specific to the area of specialization. These tracks are: secondary education, science writing, science policy, and scientist.

The senior thesis (Ast 4994) should be related to the area of specialization, and need not be astronomy research.

Required Courses
Ast 2001—Introduction to Astrophysics (4 cr)
Two 4xxx or 5xxx courses in astronomy (8 cr)
Phys 2201—Introductory Thermal and Statistical Physics (2 cr)
Phys 2601—Quantum Physics (4 cr)
Phys 2605—Quantum Physics Laboratory (3 cr)
Phys 4001—Analytical Mechanics (4 cr)
Phys 4002—Electricity and Magnetism (4 cr)
Area of specialization (approximately 12 cr)

Electives—Additional credits in the area of specialization within the degree program may be required. For example, secondary education in the physical sciences requires additional chemistry and history courses to satisfy entrance requirements to the College of Education and Human Development. Consult your adviser.

Final Project
Students complete a senior thesis in Ast 4994—Directed Research (3 cr minimum). This requirement can be met with directed research in astronomy or a project more tailored to the specific track within the degree program. For example, students pursuing a career in secondary education may want to develop a unit on astronomy for junior high school instruction instead of an astronomy research project.

Minor Requirements
Ast 1001—Exploring the Universe (4 cr)
or Ast 1011—Exploring the Universe (4 cr), Honors
and Ast 2001—Introduction to Astrophysics (4 cr) and its prerequisites.

Biblical Studies

Department of Classical and Near Eastern Studies

Minor Only
The academic study of the Bible is an extraordinarily broad interdisciplinary field. Research in this field can involve many disciplines including a number of ancient and modern languages, archaeology, history, various social sciences (including comparative religion), and literary studies. Biblical studies focuses on the Hebrew Bible and the New Testament in terms of their formation, cultural settings, and the history of their interpretation. This minor allows students who may not have the linguistic foundation to read the biblical texts in their original languages to pursue more advanced biblical studies.

Requirements
Students must complete a minimum of 15 upper division credits for the biblical studies minor. The minor focuses on study of the Hebrew scriptures and New Testament in translation or in the original languages. First-year Hebrew or Greek is required if you choose to study original texts in one of these languages.

All minors must take Clas 3072—New Testament and at least three courses from ANE 3501, 3502, 3503, 3504, Clas 3088, Clas 3089. One additional course must be taken from biblical survey and text seminars. The minor program must be approved by a biblical studies faculty member.

Biology

B.A.
See the College of Biological Sciences section for the B.S. in biology.

Students in this program develop the skills necessary to tackle complex problems within the biological sciences. Biology examines the fundamental concepts of nature and all aspects of the living environment, from the molecular level to the biosphere. Biology can open doors to many specialized fields, including genetics, biotechnology, environmental biology, and medicine.

The biology B.A. program can prepare students for further study in graduate or professional schools or careers in industry, education, or government.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 69 credits in the major. The biology curriculum also includes courses in biology, chemistry, physics, and mathematics.

Required Courses
Complete requirements in the categories of general and organismal biology, biology core, and electives in the major. The following courses must be taken A-F, unless the course is only offered S-N.

General and Organismal Biology—Choose sequence A or B:

Sequence A. (preferred sequence):
Biol 1001—Introductory Biology I: Evolutionary and Ecological Perspectives
Biol 1002—Introductory Biology II: Molecular, Cellular, and Developmental Perspectives

Choose one organismal biology course or course pair from the following list: Biol/MicB/VPB 2032, Biol 2012, Biol 2022, Biol 3211 and Biol 2005, Biol 3002 and Biol 3005, Biol 3007, Biol/MicB 3301
Biotechnology, polymer chemistry, environmental chemistry, materials chemistry, and medicine. After graduating with a bachelor’s degree, many chemistry majors go on to graduate or professional schools to pursue advanced degrees. Other graduates find employment in industry, education, or government.

**Degree Requirements**

Students must complete at least 120 credits to graduate, including 35 credits in the major. The chemistry curriculum includes courses in chemistry, physics, mathematics, and the liberal arts. Specific degree requirements are listed under Required Courses.

**Chemistry**

**Department of Chemistry**

**B.A.**

See the Institute of Technology section for the B.S. Chemistry program.

Chemistry probes the fundamental concepts of nature and helps us understand the world around us. It deals with all substances at the molecular level: their composition, their properties, and how they are transformed into new substances. Chemistry is a central science of great importance to society. It provides a broad range of opportunities in many specialized fields, including biotechnology, polymer chemistry, environmental chemistry, and medicine. After graduating with a bachelor’s degree, many chemistry majors go on to graduate or professional schools to pursue advanced degrees. Other graduates find employment in industry, education, or government.

**Degree Requirements**

Students must complete at least 120 credits to graduate, including 35 credits in the major. The chemistry curriculum includes courses in chemistry, physics, mathematics, and the liberal arts. Specific degree requirements are listed under Required Courses.
Chicano Studies

Department of Chicano Studies

B.A.
The program focuses on the social, historical, and cultural experience of the Mexican and Latino populations in the United States. The core courses introduce historical and literary methodologies and perspectives that represent the early colonial conquest and the assimilation of Indians and African slaves into the new societies of the Caribbean, Mexican, Central and South American peoples. Students explore germinal texts that portray the history of Cuba and Puerto Rico as well as the Mexican colonial history of the Southwest from 1598 to the present. The program allows flexibility in pursuing related work in Latin American studies, women’s studies, and Spanish studies. Students are encouraged to develop interests in other disciplines in order to pursue double majors.

Degree Requirements
Students must complete at least 120 credits to graduate, including 32 credits in the major. All students take the two-semester sequence, Chic 1105 and Chic 1106 in the first or second year. This yearlong survey familiarizes students with major historical figures, geography, and topics of study. Some courses at the 3xx-level explore issues of history, literature, and gender in the study of Chicanos. Students must also complete a senior paper in Chic 5993.

Required Courses

Introductory Courses
Chic 1105—Introduction to Chicano Studies: The Beginnings to 1875
Chic 1106—Introduction to Chicano Studies: Mexico and the United States (1871-present)

Literature
Chic 3114—International Perspectives: U.S.-Mexico Border Cultures
Chic 3507—Introduction to Chicano Literature

History (choose three)
Chic 3427, 3428, 3441, 3442

Chicana-Latina (choose two)
Chic 3402, 3712, 3375

Senior Paper
Chic 5993—Directed Studies (minimum 3 credits)

Electives—Students may consult with the Chicano studies adviser and coordinate two or more courses in international studies, Latin American studies, Spanish studies, and/or women’s studies.

Final Project
Students are encouraged to start thinking about the final project during the fall semester of their senior year or immediately after completing all the course requirements. Students should begin discussions with their adviser and begin a library search that indicates a bibliographical collection supporting their topic. Students may engage in a bibliographical search through a 1-credit directed studies course (Chic 3993) and then follow up with a second directed studies course (Chic 5993).

Minor Requirements
Chic 1105 or Chic 1106
Two courses in history from:
Chic 3427, 3428, 3441, 3442
One course in literature:
Chic 3507 or 3114
Two Chicana-Latina courses from:
Chic 3402, 3715, 3712

Child Psychology

Institute of Child Development

Child psychology deals with behavioral development from the prenatal period to maturity in the areas of cognition, ethology, genetics, language, learning, perception, and social behavior.

The Institute of Child Development, housed in the College of Education and Human Development, offers a bachelor of arts, a bachelor of science, and a minor in child psychology through the College of Liberal Arts. All undergraduate child psychology courses are considered CLA courses and they count toward the CLA graduation requirements.

Both the B.A. and B.S. degrees prepare students for graduate study in psychology, education, medicine, law, sociology, and other behavioral sciences. In addition, with its combination of intensive training in developmental psychology and in-depth field experience, the B.S. prepares students for careers and additional training in such areas as early childhood education, counseling, and human service programs.

Preparatory Coursework—Students take CPsy 2301—Introductory Child Psychology and Psy 1001—Introduction to Psychology in preparing for the major.

B.A.

Degree Requirements
Students must complete at least 120 credits to graduate, including two preparatory courses and 33 additional credits in the major. Major credits are distributed among core courses, a methods course, a senior project, and electives.

Required Courses

Methods Courses
CPsy 3308—Introduction to Research Methods
One of the following statistical methods courses: EPsy 3264, Psy 3801, Soc 3811, Stat 3011

Core Courses
CPsy 4331—Social and Personality Development
CPsy 4343—Cognitive Development
Four elective courses (16 cr) in child psychology

Final Project
Students complete a senior project (CPsy 4310) that may include literature review or research.

Minor Requirements

Required preparatory courses:
CPsy 2301—Introductory Child Psychology
and Psy 1001—Introduction to Psychology

To complete the minor:
CPsy 3308—Introduction to Research Methods;
Two courses (8 cr) from:
CPsy 4329, 4331, 4343
One CPsy elective (4 cr)

B.S.

Degree Requirements
To complete the B.S. in child psychology, students must complete at least 120 credits, including two preparatory courses and 40-42 additional credits in the major. Major credits are distributed among core courses, a methods course, a senior project, and electives.

Required Courses

Methods Courses
CPsy 3308—Introduction to Research Methods
One of the following statistical methods courses: EPsy 3264, Psy 3801, Soc 3811, Stat 3011

Minor Requirements

Required preparatory courses:
CPsy 2301—Introductory Child Psychology
and Psy 1001—Introduction to Psychology

To complete the minor:
CPsy 3308—Introduction to Research Methods;
Two courses (8 cr) from:
CPsy 4329, 4331, 4343
One CPsy elective (4 cr)
One evaluation methods course: EPsy 5243—Principles and Methods of Evaluation or EPsy 5849—Observation and Assessment of the Preschool Child

Core Courses
CPsy 4311—Behavioral and Emotional Problems of Children or CPsy 4313—Developmental Disabilities
CPsy 4329—Biological Foundations of Development
CPsy 4331—Social and Personality Development
CPsy 4344—Children, Youth in Society
CPsy 4343—Cognitive Development
CPsy 4994—Directed Research in Child Psychology and/or CPsy 4996—Field Study in Child Psychology
One CPsy elective (4 cr)

Final Project
Senior project CPsy 4310 (2 cr) (either literature review or research project) must be completed before graduation.

Minor Requirements
Students take the required preparatory courses: CPsy 2301—Introductory Child Psychology and Psy 1001—Introduction to Psychology. To complete the minor, students take CPsy 3308—Introduction to Research Methods; two courses (8 cr) from CPsy 4329, 4331, 4343; and one CPsy elective (4 cr).

Chinese

Institute of Linguistics and Asian and Slavic Languages and Literatures

B.A.
The program aims to establish a solid linguistic foundation for students. At the same time, it introduces the richness of Chinese literature through panoramic overviews in English and selected readings in the original language.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 36 credits in the major.
The curriculum has three course categories: language sequences, surveys (in English), and topics/studies courses.

Required Courses
Preparatory Coursework
Chn 101-1015—Beginning Modern Chinese (5-5 cr) or Chn 1015—Accelerated Beginning Modern Chinese (5 cr)
Chn 3021-3022—Intermediate Modern Chinese (5-5 cr)
Note: Students who do not earn grades of B or higher in the pre-major courses may not be prepared to complete the major requirements.

Major Requirements (36 credits)
Chn 3031-3032—Advanced Modern Chinese (4-4 cr) or Chn 3111—Introductory Classical Chinese (4-4 cr)
Chn 4121—History of the Chinese Language (3 cr) or Chn 4125—Structure of Modern Chinese (3 cr)
Chn 4011 or 4012—Chinese Traditional Literature in Translation (4 cr)

12 credits from the following two categories:

Language in English Translation (4-8 cr)
Chn 4023—20th-Century Chinese Literature in Translation (4 cr) or Chn 4024—Contemporary Chinese Literature in Translation (4 cr)
Chn 4234—Chinese Poetry in Translation (4 cr) or Chn 4235—Chinese Fiction in Translation (4 cr)
Chn 4241—Films of Modernity in China (4 cr)

Literature in the Original (4-8 cr)
Chn 5015—Chinese Philosophical/Historical Texts (4 cr) or Chn 5018—Chinese Religious Texts (4 cr)
Chn 5230—Topics in 20th-Century Chinese Literature (4 cr) or Chn 5240—Topics in Chinese Poetry (4 cr)
Chn 5242—Chinese Classical Drama and Theatre (4 cr) or Chn 5250—Topics in Chinese Fiction (4 cr)
Chn 5260—Topics in Pre-modern Chinese Prose (4 cr) or Chn 5261—Topics in Chinese Prose (4 cr)

Senior project (1 cr)

Electives—Students are strongly encouraged to take courses on Chinese civilization and culture in related disciplines.

Language Requirements
The CLA requirement of two years of a foreign language is fulfilled by the preparatory coursework, which is two years of Modern Chinese.

Final Project
A senior project is required. Students taking a survey or topics/studies course may do a senior project concurrently with the same instructor.

Minor Requirements
Required preparatory courses:
Chn 1011-1015—Beginning Modern Chinese (5-5 cr) or Chn 1015—Accelerated Beginning Modern Chinese (5 cr)
and Chn 3021-3022—Intermediate Modern Chinese (5-5 cr)
Two additional surveys or studies courses

Classical and Near Eastern Archaeology

Department of Classical and Near Eastern Studies

B.A.
This new major allows students to concentrate their studies on the material remains from the ancient civilizations of Greece, Rome, Egypt, and Biblical lands from ca. 3000 B.C. through A.D. 650. The program includes courses from the Departments of Classical and Near Eastern Studies, Anthropology, Art History, Geography, Geology, and History.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 36 credits in the major. Students must complete two years of Greek, Latin, or Hebrew (which also fulfills the CLA language requirement) and 12 approved courses in the major.

Required Courses
Clas 1043—Introduction to Greek/Roman Archaeology or Clas 3008—History of Ancient Art (4 cr) or Clas 3152—Greek Art and Archaeology (4 cr) or Clas 3162—Roman Art and Archaeology (4 cr) or One course in ancient history (3 cr)

Eight courses (24 cr) from Groups 1-4 as follows:
At least five courses must be from Groups 1-3, with at least one course from each group. The remaining three courses may be selected from Groups 1-4. Other courses may be substituted for these last three, as approved by the director of undergraduate studies.

Group 1. The Classical World
Clas 5111—Prehistoric Art and Archaeology of Greece
Clas 5113—Archaeological Survey and Field Methods
Clas 5105—Hellenic and Early Roman Art and Archaeology
Clas 5098—Greek Architecture
Clas 5162—Roman Art in the Private Sphere
Clas 5182—Public Art in the Roman Empire

Group 2. The Near East
Clas 3145—Art of Egypt
Clas 3908—Archaeology in Biblical Lands I: Old Testament Period
Clas 39089—Archaeology in Biblical Lands II: New Testament Period
Clas 3901—Archaeology of the Ancient Near East
Group 3. Field/Lab Work*
Clas 3/5340—Practicum in Archaeological Field and Computer Techniques
Clas 5120—Field Research
Anth 3176/5960—Environmental Archaeology
*Students with special needs that preclude participation in the field or laboratory may make other arrangements as approved by the director of undergraduate studies.

Group 4. Related Subjects
Appropriate courses may be selected from the Departments of Classical and Near Eastern Studies, Anthropology, Art History, Geography, Geology, History, and History of Science. Course selections are subject to the approval of the director of undergraduate studies.

Minor Requirements
Five courses, distributed as follows:
Clas 1043—Introduction to Greek/Roman Archaeology
or
Clas 3008—History of Ancient Art (4 cr)
Four courses from Groups 1-4 above, distributed as follows:
At least one course each from Groups 1-3, with the remaining one course from Groups 1-4.

Classical Civilization
Department of Classical and Near Eastern Studies
B.A.
This interdisciplinary program encompasses the study of Greek and Roman cultures and their influence on Western civilization and encourages study of related or parallel cultures such as those of Islam and the Indian subcontinent. It provides a comprehensive alternative to more specialized majors that focus primarily on one aspect or subject matter of classical antiquity and the spheres of its influence, such as art, archaeology, history, philosophy, and literature, or a narrower span of historical periods. The program enables students to investigate classical civilization and its heritage from several perspectives and become acquainted with the methods and aims of several disciplines.

Preparatory Coursework—Prospective majors are advised to begin their language study as early as possible. Students wishing to declare a major in classical civilization must make an appointment with the director of undergraduate studies to outline distribution requirements and should bring a current transcript to this and all subsequent meetings with their adviser.

Degree Requirements
Students must complete at least 120 credits to graduate, satisfying the CLA language requirement in Greek or Latin and earning at least 36 credits in the major in twelve approved courses, eight of them at or above the 3xx level, including two courses with the CICv designator and other courses offered by at least three different departments of those offering required courses. The nature and distribution of the required coursework make classical civilization a convenient as well as strong second major complementary to many other majors.

Required Courses
Language and literature (three courses, 9 cr)
Art, art history, archaeology (three courses, 9 cr)
Thought and religion (two courses, 6 cr)
Classical traditions (two courses, 6 cr)
Related electives (two to four courses, 6-12 cr)
A list of courses from other departments that satisfy major requirements can be found in the Undergraduate Student Handbook, available from the Classical Civilization Program office.

Language Requirements
Majors are required to satisfy the language requirement in either Greek or Latin.

Final Project
All majors are required to complete a senior project. The nature of the individual project will be defined by the student and his or her adviser. Majors may but are not required to register for (1-3) credits while working on the project.

Minor Requirements
In addition to satisfying a language requirement (at least two courses in either the Greek or the Latin language or demonstrated proficiency at an equivalent level and one course concerned with the culture of the country or countries where the chosen language was used), classical civilization minors must take four approved courses, including at least one course from each of the four areas required for the major. These courses should be chosen with the guidance of a faculty adviser.

Computer Science
Department of Engineering and Computer Science
B.A.
See the Institute of Technology section for the B.S.Comp.Sc. program.
Computer science is concerned with the study of the hardware, software, and theoretical aspects of high-speed computing devices and the application of these devices to a broad spectrum of scientific, technological, and business problems.
The curriculum gives students a basic understanding of computer science. After completing a required set of fundamental courses, students can arrange their subsequent work around one of several upper division emphases. These emphases allow concentrations within computer science. This should prepare a student for a variety of industrial, governmental, and business positions involving the use of computers, or for graduate work in the field.

Admission Requirements—Applicants must have a minimum modified GPA of 2.70 (all grades from repeated attempts of each grade count) in the required math and CSci courses listed below, and must complete all these courses with a grade of C- or better.
Math 1271—Calculus I
or
Math 1371—Calculus: Concepts, Explorations, and Applications I
Math 1272—Calculus II
or
Math 1372—Calculus: Concepts, Explorations, and Applications II
CSci 1901—Structure of Computer Programming I
CSci 1902—Structure of Computer Programming II

Degree Requirements
To complete the B.A., students must complete at least 120 credits. Students take three courses in mathematics and one statistics course. The major consists of 41 CSci credits, including eight required courses and an upper division emphasis. The purpose of this emphasis is to allow students to select a coherent program of courses specific to their interests. The upper division emphasis is any program that (1) forms a coherent academic program in an area of computer science; (2) consists of at least 9 credits of nonrequired 4xxx or 5xxx CSci courses; (3) contains at most one CSci 59xx or 4970 course. Finally, students must also complete a major project. All courses below must be taken A-F and passed with a C- or better.
Required Courses
CSci 2011—Discrete Structures of Computer Science
CSci 2021—Machine Architecture and Organization
CSci 4011—Formal Languages and Automata Theory
CSci 4041—Algorithms and Data Structures
CSci 4061—Introduction to Operating Systems
CSci 4081—Introduction to Software Engineering
Math 2243—Linear Algebra and Differential Equations
Stat 3021—Introduction to Probability and Statistics

Final Project
The major project requirement may be fulfilled either by taking CSci 4970—Advanced Project Laboratory (this requires finding a suitable project and a faculty member willing to supervise the project), or by taking one of the following courses: 5107, 5115, 5512, 5801, 5802. (This list will be updated periodically.) To fulfill the senior project requirement a course must contain a project that is substantial both in terms of time and scope. It should require at least six weeks of work and involve a number of different tasks such as designing, implementing, testing, and documenting a significant computer program. The project may be done in groups, and the course fulfilling the project, whether 4970 or one of the other courses, may be used as part of the upper division emphasis.

Minor Requirements
The minor consists of at least five 3- or 4-credit approved computer science courses. All courses must be taken A-F and only courses completed with a grade of C- or better count toward the minor. At least three courses must be CSci courses taken at the University. Up to two courses may be taken in another department or institution if they are equivalent to a CSci course. At least one course must be at the 5xxx level. Only computer science courses for majors are acceptable. In particular, 11xx-level CSci courses.

Cultural Studies and Comparative Literature
Department of Cultural Studies and Comparative Literature

B.A.
Both cultural studies and comparative literature study the ways cultures produce and reproduce themselves over time through close “readings” of their artifacts and practices. Comparative literature focuses on written texts and reading practices among different national traditions, while cultural studies ranges more widely, studying the meanings of the cultural world around us and the ways these meanings are central in creating us—individually and collectively. Both areas draw on interdisciplinary methods to show how texts and practices perform cultural “work”: advancing ways of knowing, systems of values and beliefs, and social-political organizations. Basic courses explain common critical methods for reading culture. More advanced courses examine particular historical moments, cultural sites, or cultural practices. All cultural studies and comparative literature courses develop ability to analyze texts and processes, explain them in terms of history and theory, and express what we find in clear writing and speaking. The major provides a strong basis for professional and graduate study and its courses are a central component of liberal arts or interdisciplinary programs.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 32 credits in the major. The B.A. program offers two tracks, a cultural studies track and a comparative literature track.
The Kennedy Center in Washington, DC.

Since 1992 the dance program has been invited to four consecutive National American College Dance Festivals.

### Required Courses

- Dnce 1500—Topics in Dance: Survival Strategies in Dance (1 cr)
- Dnce 1626—Music for Dance (3 cr)
- Dnce 3010—Modern Dance Technique 5 (2 cr)
- Dnce 3020—Modern Dance Technique 6 (2 cr)
- Dnce 3401—Dance History 1 (3 cr)
- Dnce 3402—Dance History 2 (3 cr)
- Dnce 3601—Dance Composition 1 (3 cr)
- Dnce 3402—Dance Composition 2 (3 cr)
- Dnce 3700 or 5700—Performance (2 cr each; 4 cr total required)
- Dnce 4443—Philosophy and Aesthetics (3 cr)
- Dnce 4901—Senior Seminar (2 cr)

Technique electives (1 or 2 credits each; 4 credits required)

Dance-related academic electives (1-3 credits each; 10 credits required)

### Electives

- The dance-related academic elective requirement may be fulfilled by courses in dance, music, theatre, art history, kinesiology, cultural studies, speech communications, women’s studies, as agreed upon between the student and dance adviser.

### Final Project

Requirements for final projects are completed in the required course Dnce 4901—Senior Seminar.

### Dutch Studies

**Department of German, Scandinavian, and Dutch**

- **Minor Only**

  The Department of German, Scandinavian, and Dutch offers courses in Dutch, the language spoken in the Netherlands and parts of Belgium. The Dutch studies minor includes study of the spoken language, literature, philology, culture, and civilization. The minor has been supported by an exchange with the University of Amsterdam.

#### Requirements

A passing score on the graduation proficiency test in Dutch is a prerequisite for this minor. Students take Dtc 3011—Conversation and Composition and Dtc 3012—Conversation and Composition; 6 credits, selected in consultation with the adviser, from Dtc 3310, 3510, 3610, and 5490; and one additional, related 3xxx, 4xxx, or 5xxx course, selected in consultation with the adviser.

### East Asian Studies

**Institute for Global Studies**

- **Minor Only**

Students take four semesters of an East Asian language; EAS 3211—Geography of East Asia; EAS 3461—Introduction to East Asia I: The Imperial Age or EAS 3462—Introduction to East Asia in Modern Times 1600-2000; at least two 3xxx-5xxx courses in the humanities dealing with East Asia or a single East Asian society; and at least one 3xxx-5xxx course in the social sciences dealing with East Asia or a single East Asian society.

**Note:** In fall 2000, the Institute plans to make available a new major in global studies. At that time, students will no longer be able to declare a major in East Asian studies. Students who have already declared this major will be allowed to complete it or to change to the global studies major. For more information, contact the Global Studies adviser, 232A Social Sciences Building (612-624-9353).

### Economics

**Department of Economics**

The three economics majors emphasize critical thinking and the understanding of basic economic principles. The program offers three degrees: the B.A., the B.A.-quantitative emphasis, and the B.S. The B.A. gives students a solid background in economics, is the least quantitative of the three majors, and provides excellent preparation for students interested in working immediately after graduation or considering law school. The B.A.-quantitative emphasis adds basic quantitative training (in calculus, linear algebra, and econometrics) and best suits students considering graduate work in business administration. The B.S. is for students interested in graduate study in economics or in a career where quantitative economic analysis plays a significant role.
role. The strong quantitative component in this degree emphasizes multivariate calculus, linear algebra, and econometrics.

Students choose from courses in comparative economic systems; economic theory; econometrics; economic development; game theory; industrial organization; cost-benefit analysis; environmental, financial, international, mathematical, monetary, public, and labor economics.

B.A.
Preparatory Coursework—Econ 1101—Principles of Microeconomics, Econ 1102—Principles of Macroeconomics, and Math 1271—Calculus I with a minimum grade of C- in each.

Degree Requirements
Students must complete at least 120 credits to graduate, including 28 economics credits. Students take Econ 1101 and 1102 and Math 1271 before declaring the major. In addition to taking economics courses, students can choose up to two upper division courses from related programs, and can take one independent or directed study. Some courses from mathematics and statistics are required for the degree. Study of one country only (out of Japanese Economy, Russian Economy, Latin American Economy, or any other area study) may count toward the major. Transfer students must complete at least nine of their upper division economics credits (3 courses) at the University of Minnesota, Twin Cities campus.

Required Courses
Econ 3101—Intermediate Microeconomics
Econ 3102—Intermediate Macroeconomics
Six upper division economics courses for a total of 18 credits.
Stat 3011—Introduction to Statistical Analysis
Stat 3022—Data Analysis

Electives—A maximum of two courses can be taken from the following selected courses in accounting, finance, and applied economics and applied to the 18 credits of economics upper division courses.
Fina 3001
Acct 5100
ApEc 4501, 4611, or 4821 recommended or any 4xxx ApEc course

Final Project
Students have four options for completing the senior project:
• A or B grade in an instructor-supervised research seminar (2 credits) offered every fall and spring semesters: Econ 3951—Major Project Seminar.
• Directed study (up to 3 credits of Econ 3993) resulting in a project supervised by a faculty member or instructor.
• A term paper with a minimum grade of A- from an upper division economics course.
• Acceptable honors (up to 6 credits) projects or theses.

Minor Requirements
Economics is a useful minor for students who have a related major in finance, management, statistics, mathematics, geography, sociology, political science, history, urban studies, international relations. Minors are available in six subfields designed to complement study in other majors. Each minor requires at least 13 credits (a minimum of four courses) of upper division work in economics.

Required Preparatory Courses (for all minors)
Econ 1101—Principles of Microeconomics (or equiv)
Econ 1102—Principles of Macroeconomics (or equiv)

General Economics Minor
Math 1142—Short Calculus or Math 1271—Calculus I (or equiv)
Econ 3101—Intermediate Microeconomics
or Econ 3105—Managerial Economics
Nine additional credits of upper division (at least three 3xxx-4xxx level) courses in economics
Up to 3 credits of directed study (Econ 3993 or 4993) may be counted toward the general economics minor.

Economic Theory Minor
Math 1271-1272—Calculus I-II (or equiv)
Math 2243—Linear Algebra and Differential Equations
and Math 2263—Multivariable Calculus (or equiv)
Econ 3101—Intermediate Microeconomics
and Econ 3102—Intermediate Macroeconomics
One course from the following list: Econ 4109, 4113, 4731 or 4741

Econometrics Minor
Math 1271-1272—Calculus I-II (or equiv)
Math 2243—Linear Algebra and Differential Equations (or equiv)
Stat 4101-4102—Theory of Statistics I-II
or Stat 5101-5102—Theory of Statistics I-II
Econ 3101—Intermediate Microeconomics
and Econ 3102—Intermediate Macroeconomics
Econ 4261—Econometric Analysis
Three credits of directed study (Econ 4993) for an econometrics research project

International Trade and Development Minor
Math 1271-1272—Calculus I-II (or equiv)
Econ 3101—Intermediate Microeconomics (or equiv)
Econ 4301—Economic Development
or Econ 4331—Economic Development
Econ 4307—Comparative Economic Systems
or Econ 4337—Comparative Economic Systems
Econ 4431—International Trade
and Econ 4432—International Finance
or Econ 4401—International Economics
One from:
Econ 4313—The Russian Economy
or Econ 4315—Japanese Economy
or Econ 3960—Topics in Economics: The Chinese Economy
or Econ 4311—Economy of Latin America

Applied Microeconomics Minor
Math 1271—Calculus I (or equiv)
Econ 3101—Intermediate Microeconomics (or equiv)
Econ 3501—Labor Economics
or Econ 4531—Labor Economics
Econ 3601—Industrial Organization and Antitrust Policy
or Econ 4631—Industrial Organization and Antitrust Policy
Econ 4619—Environmental Valuation
or Econ 4623—Housing Markets and Public Policy
Econ 3801 or 4831 or 5821
Recommended: Econ 4211—Principles of Econometrics

Monetary Economics Minor
Math 1142—Short Calculus
or Math 1271—Calculus I (or equiv)
Stat 3011—Introduction to Statistical Analysis I (or equiv)
Econ 3101—Intermediate Microeconomics
and Econ 3102—Intermediate Macroeconomics
Econ 4751—Financial Economics
Econ 3701—Money and Banking
or Econ 4721—Money and Banking
Econ 4731—Macro Policy
or Econ 4741—Business Cycles
B.S.
Preparatory Coursework—Econ 1101—Principles of Microeconomics, Econ 1102—Principles of Macroeconomics, Math 1271—Calculus I, and Math 1272—Calculus II. A minimum grade of C- in each course is required.

Degree Requirements
To complete the B.S., students must complete at least 120 credits, including 30 economics credits. Students take Econ 1101 and 1102 and Math 1271 and 1272 before declaring the major. In addition to taking economics courses, students can choose up to two upper division courses from related programs, and can take one independent or a directed study. Four upper division courses from mathematics and statistics are required for the degree. Only one country study (out of Japanese Economy, Russian Economy, Latin American Economy, Chinese Economy, or any other area study) may count toward the major. Transfer students must complete at least seventeen of their upper division economics credits (three upper division and two honors courses) at the University of Minnesota, Twin Cities campus.

Required Courses
- Econ 3101—Intermediate Microeconomics
- Econ 3102—Intermediate Macroeconomics
- Econ 4261—Econometric Analysis
- Two Econ honors courses (8 credits)
- Four additional upper division Econ courses for a total of 12 credits.
- Math 2243—Linear Algebra and Differential Equations
- Math 2263—Multivariable Calculus
- Stat 4101—Theory of Statistics I
- Stat 4102—Theory of Statistics II

Electives—A maximum of two courses may be taken from the following courses in accounting, applied economics, finance, and math and applied to the 12 credits of economics upper division courses.
- Acct 5100
- ApEc 4501, 4611, or 4821 recommended or any 4xxx ApEc course
- Fina 3001
- Math 4065, 4606, 5615-5616

Final Project
Students have four options for completing the senior project.
- A or B grade in an instructor-supervised research seminar (2 credits) offered every fall and spring semesters: Econ 3951—Major Project Seminar.
- Directed study (up to 3 credits of Econ 3993) resulting in a project supervised by a faculty member or instructor.
- A term paper with a minimum grade of A- from an upper division economics course.
- Acceptable honors (up to 6 credits) projects or theses.

Minor Requirements
Economics offers six minors; see B.A. degree.

B.A.-Quantitative Emphasis
Preparatory Coursework—Econ 1101—Principles of Microeconomics, Econ 1102—Principles of Macroeconomics, Math 1271—Calculus I, and Math 1272—Calculus II with a minimum grade of C- in each course.

Degree Requirements
To complete the B.A.-quantitative emphasis, students must complete at least 120 credits, including 26 economics credits. Students take Econ 1101 and 1102 and Math 1271 and 1272 before declaring the major. In addition to taking economics courses, students can select up to two upper division courses from related programs and one independent or directed study. Three mathematics and statistics courses are required for the degree. Only one country study (out of Japanese Economy, Russian Economy, Latin American Economy, Chinese Economy, or any other area study) may count toward the major. Transfer students must complete at least nine of their upper division economics credits (three courses) at the University of Minnesota, Twin Cities campus.

Required Courses
- Econ 3101—Intermediate Microeconomics
- Econ 3102—Intermediate Macroeconomics
- Econ 4211—Principles of Econometrics
- Four additional upper division economics courses for a total of 12 credits
- Math 2243—Linear Algebra and Differential Equations
- Stat 3011—Introduction to Statistical Analysis
- Stat 3022—Data Analysis

Electives—A maximum of two courses may be taken from the following selected courses in accounting, finance, and applied economics and applied to the 12 credits of economics upper division courses.
- Fina 3001
- Acct 5100
- ApEc 4501, 4611, or 4821 recommended or any 4xxx ApEc course

Minor Requirements
Economics offers six minors; see B.A. degree.

English
Department of English Language and Literature
B.A.
This major provides an opportunity to study human communication and artistic expression through literature, language, writing, and theory. Courses challenge students to develop abilities in text analysis, critical thinking, problem solving, writing, and speaking—all highly valued skills in the contemporary world. Foundation courses provide majors with a shared vocabulary and a knowledge of literary history and analysis. Elective courses invite students to examine many literatures (EngL), understand the many varieties, settings, and uses of English language and writing (EngC), and develop their own talents as creative writers (EngW). Some students elect to include English studies in their interdisciplinary programs.

Preparatory Coursework—Prospective majors are encouraged to complete an introductory course in literature, creative writing, and/or English language before officially declaring the major. Suggestions include EngL 1001-1402, EngW 1101-1104, and EngC 1601. To declare a major, a student should make an appointment with the Undergraduate Studies Office (225 Lind Hall; 612-625-4592; englmaj@tc.umn.edu).

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 35 credits in the major (31 credits from 3xxx or higher courses). Credits are distributed among textual interpretation, historical survey of literature, Shakespeare, English language or theory, elective courses, and a senior paper. All English major courses must be taken A-F and completed with grades of C- or better. Exception: senior paper course, EngL 3882 or 3884, is taken S-N.
Required Courses

Students take 10 courses (35 cr minimum) in EngL, EngW, or EngC (beyond the freshman writing requirements), including at least nine 3xxx courses, distributed as follows:

Foundation Courses

EngL 3001—Textual Interpretation, Analysis, and Investigation
Three of the following British and American literature survey courses: EngL 3003, 3004, 3005, 3006
EngL 3007—Shakespeare
or 3xxx Shakespeare in London offered on occasion through the University’s Global Campus Literature and Theatre in London study abroad program

One of the following literary theory or English language courses: EngL 3002, 3612, 3613, EngC 3601, 3602, 3603, 3605, 3606, 3611, 3621, 3632, 3633, 3641, 3650 (topics in rhetoric/writing/language)

Electives

Four courses (minimum 12 cr), to include at least three 3xxx courses (9 cr) and one 1xxx or 3xxx course (3-4 cr).

Final Project

Each student produces a senior paper in a 3xxx course (other than foundation courses), subject to department guidelines and faculty written approval. Students must also register for EngL 3882—Senior Paper (1 cr) or EngL 3884—Honors: Senior Paper (1 cr). Honors summa cum laude degree candidates must also register for EngL 3883—Summa Thesis (3 cr).

Minor Requirements

Students take EngL 3001—Textual Interpretation, EngL 3007—Shakespeare, two historical survey courses, and one elective.

European Area Studies

Institute for Global Studies

Minor Only

Students must complete the CLA second language requirement in a European language and take five courses (at least 15 credits) of 3xxx-5xxx coursework focusing on a particular topic in European area studies (excluding language courses). Courses must include Geog 3161—Geography of Europe, Hist 3707—Social and Economic History of Modern Europe, and 6 credits of humanities. A maximum of 3 credits may be in directed studies or directed research and courses must be from a minimum of three different departments. All courses must be taken A-F with a grade of C- or better. The minor program must be approved by the area studies adviser.

Note: In fall 2000, the Institute plans to make available a new major in global studies. At that time, students will no longer be able to declare a major in European area studies. Students who have already declared this major will be allowed to complete it or to change to the global studies major. For more information, contact the Global Studies adviser, 232A Social Sciences Building (612-624-9353).

Film Studies

B.A.

Film studies is an interdepartmental program that offers students the opportunity to examine film from aesthetic, historical, political, social, technical, and theoretical perspectives.

Among the departments offering film studies courses are Afro-American and African Studies; American Indian; Modern European; American Studies; Art History; Cultural Studies and Comparative Literature; East Asian Languages and Literatures; English; French and Italian; German, Scandinavian, and Dutch; Journalism; and Women’s Studies.

Degree Requirements

Students must complete at least 120 credits to graduate, including 33 credits in approved major courses. All courses must be taken A-F. Besides required courses, students take seven additional 3xxx-5xxx courses selected from approved electives, including one director course, one genre course, and one national cinema course. The seven courses must include at least one 5xxx course and, if possible, a 3xxx course designated as a junior-senior film studies seminar.

Required Courses

ArtH 1921—Introduction to Film Study
or CSCL 1921—Introduction to Film Study
ArtH 3921—Art of the Film
CSCL 5751—Basic Concepts of Cinema
Jour 4615—History of Visual Communication in the Mass Media

Final Project

The major project requirement is satisfied by the term paper for either the junior-senior seminar or for another course designated as an appropriate substitute and approved by a member of the film studies committee.

Minor Requirements

Students must take ArtH 1921—Introduction to Film Study, ArtH 3921—Art of the Film, CSCL 5751—Basic Concepts of Cinema, Jour 4615—History of Visual Communication in the Mass Media, and two additional 3xxx, 4xxx, or 5xxx courses selected from approved electives. The minor program must be approved by a member of the film studies committee.

Foreign Studies

Minor Only

The foreign studies minor helps students integrate their study abroad with supporting University coursework from a variety of disciplines. Because several of the required courses must be taken before departure, careful advance planning is essential. A more detailed explanation of requirements, guidance concerning course selection, and minor application forms are available from the academic advisers in the Global Campus office, 230 Heller Hall (612-626-9000, e-mail UMabroad@tc.umn.edu, Web <www.UMabroad.umn.edu/clarb>.

Requirements

In addition to required courses taken on campus (listed below), the foreign studies minor requires a minimum of eight weeks of study for academic credit in a foreign country. These credits must be accepted by the Office of Admissions as transfer credits or must appear on the student’s University transcript as residence credit under appropriate FoSt course numbers.

Sph 3451—Intercultural Communication: Theory and Practice (before departure)
Sph 3452—Communication and the Intercultural Reentry (after return)

Nine credits of 3xxx, 4xxx, or 5xxx courses focusing on the country of study. At least one course must be taken before departure and one after return. At least one course must be in the humanities (e.g., literature, art history), at least one in history, and at least one in the social sciences (e.g., geography, political science).

Two years (four semesters) in a foreign language appropriate to the country of study, of which at least one year must be completed before departure. Students intending to study in an English-speaking country may
French Studies

Department of French and Italian

B.A.
The French studies major includes courses in three areas in which students may concentrate: linguistics, literature, and culture. Courses in language and linguistics include history of the French language, structure of the language, sociolinguistics, phonetics, conversation, and business French. Courses in literature and culture focus on topics and problems in three broad historical periods: the Middle Ages and Renaissance, early modern France, and modern and contemporary France. A number of courses focus on Francophone literature from Africa, the Caribbean, and Quebec. Courses in French cinema are also offered.

Many students combine a French studies major with another major, or choose to minor in French studies. The department offers selected courses in English for students who have not mastered French but want to study France and the French-speaking world.

Preparatory Coursework—Students take Fren 1001-1002—Beginning French and Fren 1003-1004—Intermediate French or equivalent courses.

Degree Requirements

Students must complete at least 120 credits to graduate, including 35 credits in the major. To ensure that all majors possess an adequate knowledge of the French language, they must complete the equivalent of six semesters of instruction. Two of these are 3xxx courses that focus on intensive grammar review, development of writing skills, vocabulary building, and translation. A phonetics course, a civilization course, and an introduction to literature course (a prerequisite for all other literature courses) make up the rest of the core. A linguistics course (offered outside the department), serves as the prerequisite to most French linguistic courses. Through four electives, students may select courses from the entire range of offerings in literature, culture, and linguistics at the 3xxx and 5xxx levels. All students complete a final project, written in Fren 4101—Seminar in French Studies.

Required Courses

- Fren 3014—French Phonetics
- Fren 3015—Advanced French Grammar and Communication
- Fren 3016—Advanced French Composition and Communication
- Fren 3101—Introduction to French Literature
- One civilization course (Fren 36xx)
- One additional literature course (Fren 31xx-34xx)

Four electives

Note: Ling 3001—Introduction to Linguistics is a prerequisite for most French linguistics courses.

Final Project

Students complete a lengthy research paper in Fren 4101—Seminar in French Studies. The course focuses on contemporary issues in French studies.

Minor Requirements

Students complete prerequisites Fren 1001-1002—Beginning French and Fren 1003-1004—Intermediate French. In addition they complete a minimum of 17 additional credits, including Fren 3101—Introduction to Literature, Fren 3015—Advanced French Grammar and Communication, Fren 3016—Advanced French Composition and Communication, one civilization course (36xx), and one elective.

French and Italian Studies

Department of French and Italian

B.A.
The French and Italian studies major allows students interested in both cultures and languages to pursue a combined major. Students study specific works in each national literature while also exploring the interrelations and cross-cultural exchanges that have contributed to Italian and French literature and culture. This comparative perspective introduces students to a broad range of issues and cultural practices.

Preparatory Coursework—Students must take Fren 1001-1002—Beginning French, Fren 1003-1004—Intermediate French, or equivalent and Ital 1001-1002—Beginning Italian, Ital 1003-1004, or equivalent.

Degree Requirements

Students must complete at least 120 credits to graduate, including 36 credits in the major. Students complete the following in each language: two years of beginning language sequences, a conversation and composition course, an introductory literature course, and two elective courses. In addition, students select two French and Italian (FrIt) courses and complete their senior project in the French senior seminar or an appropriate Italian course.

Required Courses

Language
- Fren 3015—Advanced Grammar and Communication
- Ital 3015—Reading, Conversation, and Composition

Literature and Culture
- Fren 3101—Introduction to French Literature
- Ital 3201—Reading Italian Texts: Poetics, Rhetoric, Theory
- Two Fren 3xxx or 5xxx literature or culture courses
- Two Ital 3xxx or 5xxx literature or culture courses
- Two FrIt courses

Final Project

The senior project is completed in Fren 4101—Seminar in French Studies or in an appropriate Italian course.

Geography

Department of Geography

Geography describes and explains the past, present, and future locations and spatial patterns of humans and their settlements, cultural and economic traits, and natural environment and resources. The language of maps is a distinctive language of geography, and an ability to use and interpret maps is fundamental to the study and practice of the discipline. Geography offers students an integrative perspective on the relations among social, political, economic, and physical phenomena in space and place.

The B.A. provides students with a broad background in the discipline with emphasis on one of four tracks: city systems; regional analysis and development; environmental systems; and geographic information, analysis, and representation.

The B.S. offers a solid foundation in the science of geography in either the environmental systems or geographic information, analysis, and representation track.

The National Research Council ranked the geography program #3 in the nation in their 1995 report.
The city systems track examines urban phenomena on two scales. In cities as systems, students learn about the internal structure of cities, including their morphology, land-use patterns, social geography, and meaning. In systems of cities, the interconnections among cities at regional, national, and global scales are emphasized. The track examines cities and city systems in diverse settings—North American cities, European cities, cities in the developing world—and from different perspectives—historical, social, political, economic, and other approaches.

In the regional analysis and development track, students learn about different ways of life and conceptions of development or well-being of people in different places. They also learn about the connectedness of societal and environmental processes from local to global levels.

The environmental systems track examines the natural environments and resources that sustain human life and activity. Students explore the local and global patterns of climate, soils, vegetation, and surface land form; changes over time, both naturally occurring and caused by humans, in the natural environment; and ways of analyzing and predicting both human-caused and naturally occurring environmental change.

The geographic information, analysis, and representation track is concerned with all aspects of geographical information, including collection, storage, manipulation, analysis, and visualization. This track encompasses geographical information science (GIS), cartography, remote sensing, spatial analysis, and numerical modeling.

B.A.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 32 credits in the major with a grade of C- or better. Students take three core courses, a modes of geographic inquiry course, and five courses from the major track. A list of applicable courses is available from the undergraduate adviser in the Department of Geography. Students also complete a senior project. A minimum of 15 geography credits must be taken after declaring the major.

Required Courses
Core courses: Geog 1301—Introduction to Human Geography or 3001—Geographic Inquiry and Human Development and two of the following: Geog 3371, 3401, 3561.
Geog 4001—Modes of Geographic Inquiry

Final Project
Students complete a senior project either in Geog 3985—Senior Project Seminar or by extra-credit registration in any course in the major track.

Minor Requirements
Students complete a minimum of 14 credits in 3xxx, 4xxx, or 5xxx courses with a grade of C- or better.

B.S.

Degree Requirements
To complete the B.S. in geography, students must complete at least 120 credits, including at least 38 credits in the major with a grade of C- or better. These credits include: three core courses; a modes of geographic inquiry course; and four or five courses in either the geographic information, analysis, and representation track or the environmental systems track. A list of applicable courses is available from the undergraduate adviser in the Department of Geography. Students also complete a senior project.

Required Courses
Core courses: Geog 3401—Geography of Environmental Systems; Geog 3561—Principles of Geographical Information Science and one of the following: Geog 1301, 3001, or 3371
Geog 4001—Modes of Geographic Inquiry
Mathematics through Math 1272 or through Math 1372; or statistics through Stat 3022; or computer science (CSci 1107 and 1113)

Final Project
Students complete a senior project either in Geog 3985—Senior Project Seminar or by extra-credit registration in any course in the major track.

Minor Requirements
Students complete a minimum of 14 credits in 3xxx, 4xxx, or 5xxx courses with a grade of C- or better.

Geology

Department of Geology and Geophysics
B.A.
See the Institute of Technology section for the B.S. Geol. program.

Geology is the study of the composition, structure, and history of the Earth and of the processes that operate on and within it, with emphasis on the crust, oceans, and atmosphere. The B.A. prepares students for graduate study or professional employment.

Geologists are employed in a wide range of fields, including exploration for and development of natural resources (hydrocarbons, minerals, groundwater), environmental science, urban planning, education, oceanography, and other areas related to natural science. Potential employers include the oil, gas, and minerals
industries, environmental consultants, federal and private research institutions, universities, schools, and government agencies. An advanced degree is usually required for a career in research or teaching.

**Degree Requirements**

Students must complete at least 120 credits to graduate, including at least 41 credits in the major. The program is built around a core of basic Earth-science courses that are mainly taken in the sophomore and junior years. The curriculum provides a strong foundation in mathematics, physics, and chemistry. Some students select a geology major in part to obtain this broad science base. Students must pass all core courses with a grade of C- or better.

**Required Courses**

Geo 2201—Geodynamics I: The Solid Earth  
Geo 2301—Mineralogy  
Geo 2302—Petrology  
Geo 2303—Geochemical Principles  
Geo 3202—Geodynamics II: The Fluid Earth  
Geo 3401—Geochronology and Earth History  
Geo 3911—Introductory Field Geology  
Geo 4501—Structural Geology  
Geo 4602—Sedimentology and Stratigraphy  
Geo 4631—Earth Systems: Geosphere / Biosphere Interactions  
Two courses from: Geo 3870, 3880, 3890  
One course from: Geo 4911, 4921, 4971  
4 elective credits in geology  
Math 1271-1272 or 1371-1372 or 1571-1572  
Phys 1301-1302  
Chem 1021-1022

**Minor Requirements**

Students take Geo 1001—The Dynamic Earth: An Introduction to Geology or equivalent and 14 credits of geology or geophysics taken at 2xxx level or above.

**Environmental Geosciences Minor**

Students take at least one of the following preparatory courses: Geo 1001, 1002, 1004, 1011, GC 1171, GC 1172. In addition, students choose a minimum of 14 credits of 3xxx courses from: Geo 3001, 3002, 3003, 3004, 3005, 3006. Appropriate higher level courses such as Geo 4701, Geo 4631, or Geo 5701 can be substituted with approval from the undergraduate adviser. The undergraduate adviser may also approve courses from other departments (e.g., Anth 3041, Econ 3611, Geog 5441, Soc 4305). Students must complete one of the following: Geo 1001, 1002, 1004, 3001.

**German Studies**

**Department of German, Scandinavian, and Dutch**

B.A.

The German studies program teaches and conducts research in the language, literature, and culture of the German-speaking nations of Europe: Germany, Austria, and Switzerland. The program also offers courses in Dutch, the language spoken in the Netherlands and parts of Belgium. There is a major and minor in German studies and a minor in Dutch studies; these major and minor programs include the study of the respective spoken language, as well as of literature, philology, culture, and civilization.

The department recommends study abroad in a German-speaking country for at least six months in order to acquire cultural familiarity and language fluency. Students may apply appropriate coursework to a German studies major or minor. The University is affiliated with exchange programs in Berlin and Freiburg for both one- and two-stays. There are also other possibilities for study at many additional German, Austrian, and Swiss universities. For more information on study abroad opportunities, see “International Programs” in the general information area of the CLA section.

**Preparatory Coursework—**The Graduation Proficiency Test in German. Students may declare the major at any time during the preparatory coursework.

**Degree Requirements**

Students must complete at least 120 credits to graduate, including at least 35 credits in the major. This includes a core curriculum of 20-24 credits (5-6 courses) and an additional 12-15 credits of electives (4-5 courses) selected according to the guidelines of the two emphases: literature, culture, and society, and linguistics and philology. Students in the first emphasis may take one of these electives in a program outside of German—for example in art history, history, political science, philosophy, or international relations—if the course examines German-speaking areas, subject to the approval of the director of undergraduate studies. For students in the linguistics and philology emphasis, one of the electives must be taken in the linguistics program. The major program must be approved by the director of undergraduate studies.

Placement: The standard first-year classroom sequence consists of Ger 1001 and 1002. To enroll for second-year courses, CLA students must pass 1002 or the Entrance Proficiency Test. Consult the department for more information on placement and testing.

**Required Courses**

Core required of all students (5-6 courses)  
Ger 3012—Conversation and Composition (3012 may be skipped if an A is earned in 3011)  
Ger 3104—Reading and Analysis of German Literature  
Ger 3511-3512—German Culture and Civilization  
One of the following sequences:

**Literature, Culture, and Society Emphasis**

Three to four more courses in literature, film, or social/cultural history. An advanced language course (30xx beyond 3012 or 50xx) may be substituted for one of these. One elective within the German-studies program or outside, if the course examines German-speaking areas.

In this emphasis up to two courses may be taken in translation if extra work in German is done by the student, as directed by the instructors of the courses or by the director of undergraduate studies.

**Linguistics and Philology Emphasis**

Three to four more courses in German linguistics and philology: Ger 37xx courses and Ger 5101—Analysis of German  
One linguistics course chosen from Ling 3001, 3011, 3601, 5001, or 5601

Courses taken S-N may not be counted toward the major.

**Final Project**

Students complete GSD 3451—Major Project Seminar.

**Minor Requirements**

Students take five courses (minimum of 17 credits), including Ger 3011-3012—Conversation and Composition (3012 may be skipped if an A is earned in 3011) (4-8 credits); Ger 3104—Introduction to Literary Analysis (4 credits); and two to three more 3xxx, 4xxx, or 5xxx courses (6-9 credits).
Global Studies

Institute for Global Studies

B.A.

This program offers students the opportunity to study the interrelated processes shaping today’s increasingly interdependent world. Students examine political, economic, cultural, and social processes of local communities, nation states, transnational businesses, and social movements across the globe. The program requires students to integrate theoretical knowledge about broad global processes with regionally focused detailed knowledge of social and cultural systems and language. Students complete a common set of core courses providing a broad overview of issues and approaches to global studies. Each student then chooses a thematic and regional concentration. Coursework is completed by selecting from relevant courses offered by a broad range of departments.

Preparatory Coursework—As preparation for the major, students are encouraged to take at least two of the following courses: Geog 1301, Hist 1012/1018, GloS 1015/1016; Pol 1025; CSCL 1001, CSCL 1301; and one year of foreign language study at the college level. Students must formally enroll in the major at the advising office, 232 Social Sciences Building. Students must meet with an adviser to develop a program that meets major guidelines.

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 33 credits in the major. All courses for the major must be taken A-F and completed with a grade of C- or better. Students must declare a thematic and regional concentration. A minimum of 12 credits is required for each concentration. At least two of the courses taken within the thematic or regional concentrations must have the global studies (GloS) designator. Detailed information on courses fulfilling the requirements for specific concentrations is available in the Global Studies Handbook. Because the global studies major offers students an unusual level of flexibility, putting together a course of study that meets these requirements can be complex. Students must work closely with a global studies adviser in room 232 Social Sciences Building.

Required Courses

GloS 3101—International Relations: Practice and Theory (4 cr)
GloS 3144—Introduction to Area Studies (4 cr)

Ways of Knowing requirement—3-4 credits

Students complete a course of at least three credits appropriate to their thematic concentration in consultation with a global studies adviser.

Thematic Concentrations—12-13 credits

Students choose a thematic concentration from the options below.

Culture, Power, Place: Coursework integrates humanities and social science perspectives on such phenomena as globalization, transnationalism, modernity, colonialism, nations and nationalism, ethnicity, and diasporic identities, by focusing on the ways that these produce and are produced by cultural forms. Students consider the political nature of cultural processes and the interrelated constitution of culture, power, and place.

Environment and Sustainable Development: Coursework examines how the global dynamics of capitalism determine forms of raw material extraction and natural resource use, and shape trajectories of environmental change; how development and macroeconomic programs affect people, societies and ecosystems across the world; and how grassroots and transnational social movements may articulate new visions of sustainable development, nature, and justice.

Governance, Peace and Justice in a Global Context: Coursework addresses interstate relations as well as the ways in which such relations have been altered by the increasing role of nongovernmental organizations, supranational organizations, and institutions of global governance. Students examine mechanisms promoting conflict resolution and cooperation in a global context.

International Political Economy: Coursework focuses on the study of economic relationships among governments, enterprises, societal groups, and communities from different countries. Students explore economic processes, the institutions that shape them, and local reaction to them.

Population, Migration, and Identity: Coursework provides students with a better understanding of human population development, transnational migration, and the politics of identity in an increasingly interdependent world. Students investigate population growth, fertility, mortality and transnational labor and refugee migration in different parts of the world.

Regional Concentrations—12-13 credits

Students choose a regional concentration from: Africa, East Asia, Europe, Latin America, Russia, or South Asia. Within each regional concentration students choose appropriate courses in consultation with a global studies adviser.

Language Requirements

Students complete at least two years of coursework in a language related to their regional concentration.

Additional Requirement

Students participate in a relevant experiential learning opportunity through study abroad, the foreign language immersion program, an internship, or a service learning experience. Work completed in meeting these requirements will be counted toward the thematic or regional concentrations where appropriate.

Final Project

Students complete a senior project integrating their thematic and regional concentrations.

Minor Requirements

Students complete 17 credits for the global studies minor. All courses must be taken A-F and completed with a grade of C- or better. All students complete GloS 3101 and GloS 3144 to fulfill the core requirements. Students then declare a thematic and regional concentration and complete an additional nine credits, including at least one breadth requirement, at least one course in a theme, and at least one course in a region.

Greek

Department of Classical and Near Eastern Studies

B.A.

Greek is the Western language with the longest continuous history, from the poetry of Homer composed in the first millennium B.C. to the present. This program focuses on literature, philosophy, religion, history, archaeology, and art associated with the Greek language from its earliest appearance through the golden age of the Greek city-state in the 5th century B.C. and the Roman Empire into the medieval Byzantine Empire. Greek majors who intend to continue in Classics graduate studies are strongly advised to study Latin as well.

Preparatory Coursework—Students take either Grk 1002 or 1111/1112 or 3111/3112 or must have four years high school Greek and one course from: Clas 1001, 1002, 1003, 1023, 1024, 3023, 3024.
Degree Requirements

Students must complete at least 120 credits to graduate, including 30 credits in the major. The major in Greek includes the reading of Greek authors and the study of ancient civilization from the broad range of courses offered at the University. The Greek authors include poets like Homer, philosophers like Plato and Aristotle, the playwrights who wrote the first comedies and tragedies, and Herodotus “the father of history.” The study of ancient civilization may include courses in Modern Greek, Latin, and other ancient languages, but at least one course must be concerned with ancient culture. Students also complete a senior project.

Required Courses

Upper Division Requirements
14 credits in Greek courses at 3113 or above
12 credits of related coursework: at least one course in ancient culture above 3xxx; additional Latin or Greek courses at 3113 or above, any classics courses above 3xxx, or other courses (e.g., ancient history, art) with approval of the director of undergraduate studies.
4 credits of a senior project (not required if this is the second major of a Latin-and-Greek double major)

Major Project
A senior project is required; double majors in Latin and Greek are required to complete only one senior project. The project usually takes the form of a paper, but other forms of a project may be considered.

Minor Requirements
The Greek minor permits students who have satisfied the language requirement in Greek to read ancient authors and to expand their knowledge of ancient civilization.

Students must have taken either Greek 1002 or 1111/1112 or 3111/3112 or must have four years high school Greek and one course from: Clas 1001, 1002, 1003, 1023, 1024, 3023, 3024.

Upper division requirements: 11 credits in Greek courses at 3113 or above and 3 credits of related coursework at 3xxx level or higher, including courses in Latin, Greek, other ancient languages; classics courses; and other courses in ancient culture.

Hebrew

Department of Classical and Near Eastern Studies

B.A.

This program enables students to study the various periods of the Hebrew language covering a span of 3,000 years, from biblical times to the present. The program gives students the tools for work in the fields of literature, social sciences, religious studies, linguistics, and law.

Hebrew equips the student for cross-disciplinary learning in several fields—ancient, medieval, and contemporary. Related areas include Jewish studies, religious studies, Arabic, Greek, and the extinct languages of the ancient Near East. Students are encouraged to incorporate study in Israel in one of the many exchange programs involving archaeology, the social sciences, or the humanities (consult the Global Campus office for more information).

Hebrew majors often use their major to complement a second major in another field such as political science, sociology, journalism, history, religious studies, business, speech communications, and linguistics.

For related coursework, see listings under ancient Near Eastern studies and Jewish studies.

Preparatory Coursework—Students take Hebr 3012 or equivalent.

Degree Requirements

Students must complete at least 120 credits to graduate, including 32 credits in the major. All students complete two semesters of advanced Hebrew. Then they must choose 6 credits of coursework from each of three areas: biblical studies, rabbinic and medieval texts, and modern Hebrew prose and poetry. In addition, students must take 6 credits of electives (taught in either Hebrew or English) and a linguistics course. The senior project completes the requirements.

Required Courses

Upper Division Requirements
All students take Ling 3001—Introduction to Linguistics
Hebr 3015-3016—Advanced Modern Hebrew I-II
From the areas of biblical Hebrew, rabbinic/medieval
Hebrew, and modern Hebrew, students must take a minimum of 6 credits in each area (minimum of 18 credits total):

Biblical Hebrew
Hebr 3201-3202—Readings in Biblical Hebrew I-II
Hebr 3200—Topics in Biblical Studies: A Book of the Bible

Rabbinic and Medieval Hebrew
Hebr 3111—Rabbinic Texts I
Hebr 3112—Rabbinic Texts II
Hebr 3122—Medieval Hebrew Literature I
Hebr 3123—Medieval Hebrew Literature II

Modern Hebrew:
Hebr 3301—Modern Hebrew Prose
Hebr 3302—Modern Literary Prose and Poetry

Electives—Any of the Jewish studies courses may be applied toward the major.

Major Project
A major project is required, including registration in Hebr 3951 (1-4 cr). Students majoring in Hebrew and Jewish studies are required to complete only one major project. The project generally takes the form of a paper, but other forms of project may be considered.

Minor Requirements
The Hebrew minor permits students who have satisfied the language requirement with Hebrew to use their knowledge to read more widely in sources of antiquity and the middle ages and the modern period and to add to their knowledge of Hebrew civilization and culture.

Students must have completed Hebr 3012 or equivalent as certified by an adviser. Upper division requirements include 14 credits of related coursework at 3xxx level or higher in consultation with an adviser to assure a balanced distribution of subjects and genres. Coursework may include courses in Hebrew, ancient Near Eastern studies, or Jewish studies. All courses at the 3xxx level must be taken A-F.

History

Department of History

B.A.

History examines the human experience from its origins to the present. Beyond introductory surveys, courses focus on various regions (Europe, Africa, Asia, Latin America, United States), time periods (ancient, medieval, early modern, and modern), and methods (economic, social, quantitative). Interdisciplinary programs incorporate history into a variety of other programs (e.g., history of medicine, international relations, various area studies majors, women’s studies).
Degree Requirements
There are no prerequisites for the undergraduate major. Students take three introductory courses (including one in world history and one writing-intensive course at the introductory level), six courses above the 1xxx level, including three in an area of concentration, and a senior paper course. In selecting the ten courses, majors must fulfill three distribution requirements:

1. **Chronological**—At least two courses from the premodern era (roughly pre-1750) and two courses from the modern era (roughly post-1750).
2. **Geographic**—At least one course in each of two different geographic areas and one of the following courses in world history: Hist 1011, 1012, 1013, 1014, 1017, 1018, 1027, 1031, 1032, 1033, 1034 (European civilization).
3. **Area of concentration**—At least three courses, 3xxx or higher, that represent either a geographical area, a chronological period, or a unifying theme, method, or subject.

An honors major with special courses is offered.

Required Courses
Students must take three of the following introductory survey courses:
- Hist 1011, 1012, 1013, 1014, 1017, 1018 (world history)
- Hist 1026, 1027, 1031, 1032, 1033, 1034 (European civilization)
- Hist 1301, 1302, 1303, 1304, 1307, 1308 (U.S. history)

Final Project
Students are required to produce a 20-30 page senior paper based on research in both primary and secondary sources. Most majors will do this in a one-semester, 4-credit senior paper course (Hist 3961—Major Paper).

Minor Requirements
Students take a minimum of five history courses for a total of at least 14 upper division credits. These courses must be in at least two different cultural/geographic areas.

History of Medicine

Medical School
Minor Only
History of medicine courses explore the development of medical knowledge, institutions, and practices; the history of diseases; and the place of medicine in Western intellectual and social history.

Requirements
Students take 14 credits in history of medicine courses. This includes at least 6 credits in introductory survey courses (HMed 3001-3002—Health Care in History I-II or HMed 5201-5202) and at least 6 credits in specialized courses at the 5xxx level.

History of Science and Technology

Program in History of Science and Technology
Minor Only
Courses for this minor address the history of science and technology, including the cultural and social contexts of their development.

Requirements
Students take at least 14 credits of 3xxx-5xxx courses; at least 4 of these credits must be at or above the 4xxx level. Not more than 25 percent of the total 3xxx-5xxx credits in the minor program may consist of directed study, directed instruction, or independent study credits. All courses in the minor must be completed with a grade of C- or better.

Humanities in the West

Humanities Program
Minor Only
Humanities offers integrated study of areas of civilization and major humanistic problems, drawing mainly on primary sources in literature, philosophy, history, the arts, and relevant aspects of the human and natural sciences. This breadth of perspective provides an understanding of men and women as heirs to and creators of civilization, concerned with values and the development of the whole person. Humanities offers a variety of interdisciplinary courses and a minor in humanities in the west.

Requirements
Students take a total of 18 credits as follows. A minimum of 10 credits from the humanities in the west sequence; 8 additional humanities course credits. The minor program must be approved by the humanities program coordinator. Not more than one humanities course in the minor program may be taken at the 1xxx level. Not more than one 3xxx-4xxx course in the minor program may be taken directed study, directed instruction, or independent study. Not more than one course in the minor program may be taken S-N. All courses in the minor program must be completed with a grade of C- or better.

Individualized Studies

B.I.S.
The Bachelor of Individualized Studies (B.I.S.) is an alternative degree program that provides certain types of flexibility not available in B.A. and B.S. programs. Rather than completing a major within a single field, students focus their coursework on three areas of concentration, one of which may consist of courses from outside CLA. The areas do not have to be related to each other, but the B.I.S. program proposal must include an explanation of the student’s overall educational goals.

Working closely with a B.I.S. adviser, students develop program proposals that explain why their academic needs would best be met by an individualized program and list the courses to be included in the program. The B.I.S. proposal must be approved by faculty or department advisers with expertise in the areas of concentration.

In addition, some departments and colleges have established prerequisites or required courses for students who want to include in their B.I.S. programs concentration areas based in those departments and colleges. Consult a B.I.S. adviser for specific information on proposal procedures and on department and college guidelines.

Degree Requirements
To complete the B.I.S., students must complete 120 credits, including 50 approved credits at or above 3xxx, distributed among the three concentration areas. The concentration areas may be departmental or thematic in composition, and each must include a minimum of 15 credits at or above 3xxx. Up to 21 credits in the program may be from outside CLA.
A minimum of 20 credits in the B.I.S. concentration areas must be completed after admission to the B.I.S. program.

A maximum of 12 credits of directed studies may be included in a B.I.S. program.

The CLA requirement of 18 credits at or above 3xxx outside the major does not apply.

**Final Project**
The B.I.S. senior paper requirement is met with a 2,500-word analytic paper written in conjunction with a CLA course in the B.I.S. program.

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**Individually Designed Interdepartmental Major**

**B.A.**
The I.D.I.M. program enables students to fulfill the major program requirements for the B.A. degree by completing an interdepartmental program of coursework focused on a theme of their own choosing, designed in consultation with faculty and staff advisers.

I.D.I.M. programs consist of three or four areas of concentration, integrated in such a way that the major has strong thematic unity and coherence.

Working closely with an I.D.I.M. adviser, students develop program proposals that explain their academic goals and list a set of courses appropriate for meeting those goals. I.D.I.M. program proposals must be approved by three faculty or department advisers with expertise in the areas of concentration. Some departments have established guidelines for students who wish to include in their majors concentration areas based in those departments. Consult an I.D.I.M. adviser for specific information on proposal approval procedures and department guidelines.

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**International Relations**

**Institute for Global Studies**

*Note:* In fall 2000, the Institute plans to make available a new major in global studies. At that time, students will no longer be able to declare a major in international relations. Students who have already declared this major will be allowed to complete it or to change to the global studies major. For more information, contact the Global Studies adviser, 232A Social Sciences Building (612-624-9353).

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**Italian Studies**

**Department of French and Italian**

**B.A.**
The Italian studies undergraduate program examines Italian literature, history, and culture. Italy, which became a unified nation-state only in 1870, struggled for centuries to escape occupation by other European powers; a diversity of regional centers (including Rome, Florence, Milan, Venice, and Naples) that created distinct linguistic, literary, and cultural expressions.

Department offerings focus on the emergence of Italian nationhood and identity from the Enlightenment and Risorgimento through the Fascist and postwar eras and its reflection in literature and other symbolic expression, with emphasis on problems of gender, and national and cultural boundaries.

**Preparatory Coursework**—Students take Ital 1001-1004 or equivalent.

**Degree Requirements**
Students must complete at least 120 credits to graduate, including at least 34 credits in the major.

After completing Italian language courses (Ital 1001-1004 or equivalent), majors must take one of third-year language, the Reading Italian Texts course on methods of reading, and two semesters of Italian culture (Ital 3501-3502).
Students round out the nine-course major with five or six electives. Seniors designate one of their papers in the last as their senior project, to be developed in close consultation with faculty.

Required Courses
- Ital 3015—Reading, Conversation, and Composition (prerequisite for all upper division courses)
- Ital 3201—Reading Italian Texts: Poetics, Rhetoric, Theory (prerequisite for all 4xxx and 5xxx courses)
- Ital 3501—The World in the City: Italy 1100-1660
- Ital 3502—Making of Modern Italy: From the Enlightenment to the Present
- Five electives (3xxx, 4xxx, or 5xxx, except courses taught in English)

Electives—Courses in other departments (such as history, art history, immigration study) may be counted for the major by consent of the major adviser (coursework must be wholly or partially in Italian language).

Final Project
Majors designate one of their term papers in their last as a special final project for development in close consultation with faculty.

Minor Requirements
Prerequisite Courses
- Ital 1001-1004 or equivalent

Required Courses
At least 19 credits beyond prerequisites taken from the following:
- Ital 3015—Reading, Conversation, and Composition (prerequisite for all upper division courses)
- Ital 3201—Reading Italian Texts (prerequisite for all 4xxx and 5xxx courses)
- Ital 3501—The World in the City: Italy 1100-1660 and Ital 3502—Making of Modern Italy: From the Enlightenment to the Present
- Two electives (3xxx, 4xxx, or 5xxx, except courses taught in English)

Japanese
Institute of Linguistics and Asian and Slavic Languages and Literatures

B.A.
The program allows students to study classical and contemporary Japanese language and society. Coursework includes three areas: language, literature and culture, and linguistics. Students must plan their major programs in consultation with faculty advisers.

Preparatory Coursework—Students take Jpn 1011-1012—Beginning Japanese and Jpn 3021-3022—Intermediate Japanese. All courses in the major program, including prerequisite courses, must be completed with a grade of C- or above.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 36 in the major.

Three years of language study are required. The major also includes courses in Japanese literature (including an introductory course in English translation and at least one course working with literary texts in Japanese) and in Japanese linguistics. Students must also complete a major project, normally in conjunction with a 5xxx course.

Required Courses
Requirements for the B.A. degree include language courses, a linguistics course, a course in literature in English translation, and three additional courses.

Language Requirements
The introductory literature course must be chosen from among Jpn 3162, 3163, and 3164.

Electives—Students are encouraged to take courses offered by other departments that focus on Japanese culture; such as art history, history, political science, or sociology.

Language Requirements
The program requires two semesters of study beyond the four-semester CLA requirement.

Final Project
Students must complete a senior project under the direction of a department faculty member. Students may choose to concentrate on linguistics or literature, and should select their elective 5xxx-level courses with the senior project in mind. Occasionally a special course is offered for juniors and seniors, which focuses on a topic, reviewing literature, doing research in both English and Japanese sources, and structuring arguments in a piece of extended writing.

Japanese

Minor Requirements
The requirements for a Japanese minor include Jpn 3021, 3022—Intermediate Japanese and two additional 3xxx or 5xxx Japanese courses.

Jewish Studies

Department of Classical and Near Eastern Studies

B.A.
This broad, interdisciplinary field studies the civilization of the Jewish people from its beginnings in biblical antiquity to the present. The diverse quality of Jewish civilization and the unifying forces of its religion and language offer ample material for the study of continuity, adaptation, and change.

The undergraduate program offers courses in the Bible, Jewish history, Jewish literature, midrash, Jewish philosophy, medieval and modern Jewish studies, Talmud, and rabbinics. The program has links with the departments of American Studies, sociology, history, English literature, German, music, and political science. The University’s Center for Holocaust and Genocide Studies offers courses related to the study of the Nazi Holocaust and its aftermath.

For related coursework and major programs in Hebrew language and literature and ancient Near Eastern studies, see other listings under the Department of Classical and Near Eastern Studies.

Study abroad in Israel or Europe is encouraged as a valuable augment to the major; consult the University’s Global Campus office for further information.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 30 credits in the major.

The program seeks to
- give students substantive understanding of the historical, religious, literary, philosophical, sociological, and political experiences of the Jewish people.
• demonstrate how scholars of diverse academic disciplines conceptualize and examine issues in their field. Students will learn how to approach the same subject with different perspectives and methodologies.

The program joins humanistic and social scientific approaches to learning. The principal disciplines represented in the program are the Hebrew and Aramaic languages (Yiddish and Arabic when available), history, literature, religious studies, archaeology, art, American studies, women’s studies, political science, and sociology.

**Required Courses**

JwSt 3034—Introduction to Judaism

*Students must also complete at least 30 additional credits, distributed as follows:*

1. 18 credits in courses of 3xxx-level or above in Jewish languages and literature, social sciences, and philosophy and religion. The major focus of the courses, chosen with adviser approval, should be on the Jewish people and Judaism. At least one course must utilize the methods of the social sciences (sociology, political science) and at least one course must utilize the methods of the humanities (religious studies, history, literature).

2. 6 credits of paired courses. “Paired” courses are courses either from within or outside the Department of Classical and Near Eastern Studies that allow comparison with a related topic in Jewish studies. For example, a pair might consist of JwSt 3034—Introduction to Judaism, and RelA 1031—Introduction to the Religions of South Asia. A Jewish Studies adviser will help students construct clusters to suit their interests and educational objectives.

3. Anth 3045—Religion and Culture

4. JwSt 3951—Major Project

**Language Requirements**

All majors must complete at least two years of Hebrew language study, including Hebr 1001-1002—Beginning Hebrew I-II and Hebr 3011-3012—Intermediate Hebrew I-II. The course sequence of Hebr 3201-3202—Readings in Biblical Hebrew I-II may be substituted for Hebr 3011-3012.

**Major Project**

A major project is required, including registration in JwSt 3951 (1-4 cr). Students majoring in Hebrew and Jewish studies are required to complete only one major project. The project generally takes the form of a paper, but other forms of project may be considered.

**Minor Requirements**

Hebr 1001, 1002—Beginning Hebrew I-II or equivalent, as certified by the adviser, JwSt 3034—Introduction to Judaism, and Hebr 3011, 3012—Intermediate Hebrew I-II. At least 6 additional credits of related coursework at the 3xxx level or higher must be chosen in consultation with the adviser. These courses may include courses in Jewish literature of any period or genre, Holocaust studies, and social science courses related to the study of the Jewish people or their religion and culture. All courses at the 3xxx level must be taken A-F.

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**Journalism and Mass Communication**

**School of Journalism and Mass Communication**

**B.A.**

The school offers a B.A. major program in journalism with two tracks: professional and mass communication.

**Admission Requirements**—The school admits a limited number of undergraduates annually. A student should apply for formal admission to the major after completing Jour 1001 with at least a C-, and completing at least 30 graded (A-F) credits, including one semester of study (12 credits minimum with A, B, or C grades) in CLA. Admission to major status is required before enrolling in Jour 3004, which is a prerequisite for most other journalism courses. Majors are expected to have typing skills before enrolling in Jour 3101 or any advanced reporting, editing, or broadcast courses.

Students wishing to emphasize journalism in IDIM (Individually Designed Interdepartmental Major), B.I.S. (Bachelor of Individualized Studies), or ICP (Inter-College Program) must have a 2.80 overall GPA, a grade of C- or higher in Jour 1001, and a score of 550 or above on the SAT II Writing Test to qualify for admission. Individualized program students must include Jour 3004 in their programs. With adviser approval, 1-3 professional (skills) courses are permitted, but not required.

A 2.80 overall GPA is required for students in the Program for Individualized Learning who wish to include journalism courses in their programs.

**Degree Requirements**

Students must complete at least 120 credits to graduate, including at least 33 credits in the major. All major courses must be completed with grades of C- or higher.

About three-fourths of the coursework for the B.A. degree is outside of journalism in the social sciences, humanities, and other liberal arts. The 120-credit requirement must include at least 90 non-journalism credits, including 65 CLA credits. The introductory course Jour 1001—Introduction to Mass Communication (3 cr) counts toward the 90 non-journalism credits, but is also included as part of the 33 major credits.

Journalism courses are categorized in the following way.

- Professional (skills) courses: 3101, 3121, 3155, 3159, 3173, 3179, 3201, 3241, 3251, 3321, 3451, 4131, 4155, 4159, 4171, 4174, 4176, 4261, 4263, 4321, 4441, 4442.
- Enrichment courses: 3006, 3007, 3008, 3614, 3741, 3745, 3771, 3776, 3796, 4274, 4611, 4615, 4721, 4731, 4801, 5251, 5316, 5501, 5531, 5725, 5726, 5541, 5601, 5606, 5741, 5771, 5777, 5825.
- Independent study and specialized topics courses: 3990, 3993, 3996, 4993, 5990, 5993.

**Mass Communication Track**

The mass communication track is for students who wish to study the economic, political, legal, and social aspects of mass communication. Students may develop a program emphasis in areas such as history, law, media effects, media industry studies, international communication, or other aspects of mass communication studies represented in the school.
Required Courses
The required core course is Jour 3004—Information for Mass Communication.

At least 27 additional 3xxx, 4xxx, or 5xxx credits. This requirement includes 12 credits of mass communication core courses, including one course from each of these groups:
I. History: Jour 3007, 3614, 5601, 5606, 4611, 4615
II. International/Multicultural: Jour 3741, 5741, 4801, 5825
III. Media Effects: Jour 3006, 3008, 5251, 5316, 5501, 5531, 5541
IV. Media and Society: Jour 3745, 3771, 3776, 3796, 4274, 4721, 5725, 5726, 5771, 5777

The 27-credit requirement also includes 15 credits chosen in consultation with a faculty adviser from among the following: professional (skills) courses*, enrichment, topics, and independent study courses.

* With adviser approval, 1-3 professional (skills) courses are permitted, not required.

Supporting coursework includes at least 12 credits at the 3xxx, 4xxx or 5xxx level from other University departments, chosen in consultation with a faculty adviser after admission to the major.

Final Project
All journalism majors must complete a major project before graduation. For the mass communication track, this requirement is satisfied by completing two 4xxx or 5xxx enrichment courses.

Professional Track
The professional track prepares students for careers in journalism, advertising, and public relations. These careers include newspaper reporting and editing, magazine writing, broadcast news, corporate public relations, and advertising account services. This track is based on a broad liberal arts foundation, knowledge of the social and professional responsibilities of communicators, and basic competence in journalistic skills.

Required Courses
The required core course is Jour 3004—Information for Mass Communication.

Other requirements include at least 27 additional 3xxx, 4xxx, or 5xxx credits to include completion of either a journalism or advertising/public relations concentration.

Journalism Concentration
4 credits of journalism core course: Jour 3101—Newswriting and Reporting.
12 credits of professional (skills) courses chosen in consultation with a faculty adviser from the following list: Jour 3121, 3155, 3159, 3173, 3179, 3321, 3451, 3996, 4131, 4155, 4159, 4171, 4174, 4321, 4441, 4442, and 3990 or 5990 (specialized reporting courses, including Charnley course).
12 credits of enrichment, topics, or independent study courses chosen in consultation with a faculty adviser.

Advertising/Public Relations Concentration
3 credits of advertising/public relations core course: Jour 3159—Public Relations or Jour 3201—Principles of Advertising.
12 credits professional (skills) courses chosen in consultation with a faculty adviser from the following list: Jour 3179, 3241, 3251, 3321, 3996, 4159, 4261, 4263, 3990 or 5990 (specialized topics courses). With adviser’s approval, 3101 may be used to meet this requirement.
12 credits of enrichment, topics, or independent study courses chosen in consultation with a faculty adviser.

Supporting coursework includes at least 12 credits at the 3xxx, 4xxx, or 5xxx level from other University departments, chosen in consultation with a faculty adviser after admission to the major.

Final Project
Majors must complete a major project before graduation. For the professional track, this requirement is satisfied by completing two professional (skills) courses (at least one must be 4xxx or 5xxx).

Minor Requirements
Students must complete 18 credits in the minor program.

Jour 1001—Introduction to Mass Communication, Jour 3004—Information for Mass Communication, Jour 3101—Newswriting and Reporting or Jour 3159—Public Relations or Jour 3201—Principles of Advertising and three enrichment courses, one of which must be 4xxx or 5xxx.

Students must have a 2.80 overall GPA, a grade of C- or higher in Jour 1001, and a score of 550 or above on the SAT II Writing Test to qualify for admission to the minor program.

Latin

Department of Classical and Near Eastern Studies
B.A.

Modern “Romance” languages (French, Italian, Spanish, and Portuguese) are derived from Latin, as is much English vocabulary. The Latin major allows students to enjoy a large range of literature written over more than a millennium and a half. It is concerned with the language and literature of the Roman Republic and Empire and later Latin literature from the Middle Ages and Renaissance, as well as with Roman religion, history, archaeology and art. It is in its essence interdisciplinary; it also has connections with the study of Greek and other ancient languages and cultures, as well as with the majors in classical civilization and religious studies and minors such as medieval studies.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 30 credits in the major.

The major in Latin has two principal parts, the reading of Latin authors and the study of ancient and mediaeval civilizations from the broad range of courses offered by the University. The Latin authors include poets such as Virgil and Catullus, historians like Livy and Ammianus, and orators, especially Cicero, as well as later Latin writings like the Confessions of Augustine.

The study of ancient civilization may include courses in Greek and other ancient languages, but at least one must be concerned with ancient culture. A senior project is also required; double majors in Latin and Greek must complete only one senior project.

Required Courses
Prerequisites
Latin 1002 or 1111/1112 or 3111/3112 or 4 yrs high school Latin and one of Clas 1004, 1005, 1006, 1023/3023, 1024/3024

Upper Division Requirements
14 credits in Latin courses at 3113 or above
12 credits of related coursework: at least one course must be in ancient culture above 3000; the remaining credits are from Latin or Greek courses at 3113 or above, any Classics courses above 3000, or other courses in history, art, medieval studies, etc., with approval of director of undergraduate studies
4 credits of senior project (not required if this is the second major of a Latin-and-Greek double major)

Language Requirements
14 credits at Latin 3113 and above (college requirement fulfilled with 3114).

Final Project
A senior project is required, although double majors in Latin and Greek are required to complete only one senior project. The project generally takes the form of a paper, but other forms may be considered.
Minor Requirements
The minor program permits those who have satisfied the language requirement with Latin to use their knowledge to read more widely in Latin authors of antiquity and the Middle Ages and to add to their knowledge of Roman and medieval civilization.

Prerequisites
Latin 1002 or 1111/1112 or 3111/3112 or 3113 or 4 yrs high school Latin and one of Clas 1004, 1005, 1006, 1023/3023, 1024/3024.

Upper Division Requirements
Eleven credits in Latin courses at 3113 or above; 3 credits of related coursework at 3xxx level or higher, which may include courses in Latin, Greek, other ancient languages, Classics courses and other courses in ancient culture.

Latin American Studies
Institute for Global Studies
Minor Only
The minor requires successful completion of Span 1004 or Port 1104 (or equivalent), plus five 3xxx-5xxx courses (totaling at least 15 credits) related to Latin America. Courses must include Geog 4121—Latin America; Hist 3401—Early Latin America to 1825 or Hist 3402—Modern Latin America 1825 to Present; 6 credits of humanities; and 3 additional credits.

A maximum of 3 credits may be in directed studies or directed research and courses must be drawn from a minimum of three different departments. All courses must be taken A-F, with a grade of C- or better. The minor program must be approved by the area studies adviser.

Note: In fall 2000, the Institute plans to make available a new major in global studies. At that time, students will no longer be able to declare a major in Latin American studies. Students who have already declared this major will be allowed to complete it or to change to the global studies major. For more information, contact the Global Studies adviser, 232A Social Sciences Building (612-624-9353).

Linguistics
Institute of Linguistics and Asian and Slavic Languages and Literatures
B.A.
Linguistics is the scientific study of human language. Courses explore the principles governing the structure of natural languages, how language is used in human social interaction, how languages are acquired by children and adults, and how they change over time.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 30 credits in the major.

The program offers two coursework options, both building on a common core of courses including an introduction to linguistics and single courses in phonetics and historical linguistics and capped by the senior project.

In addition, Option 1 requires one course in syntax and one in phonology plus 9 additional credits. Option 2 requires a course in linguistic analysis (covering both syntax and phonology) plus 12 additional linguistic credits. Students intending to pursue graduate study in linguistics are advised to select Option 1.

Related courses in other departments may be applied to the major with the approval of the director of undergraduate studies. At least seven of the preceding courses must be taken A-F.

Required Courses
Ling 3001 or 5001 or 3011
Ling 3301 or 5301
Ling 3601 or 5601
Ling 4901—Senior Project

Option 1
Ling 5201—Introduction to Syntax
Ling 5302—Introduction to Phonology
9 additional credits in 3xxx or 5xxx linguistics courses, excluding 4002, with no more than 6 in any one area, such as phonology or syntax

Option 2
Ling 4002—Linguistic Analysis
12 additional credits in 3xxx-5xxx linguistics courses, excluding 5201 and 5302, with no more than 9 in any one area.

One course in the history and/or structure of a language studied for at least one year at college level (or the equivalent). If such a course is not available, Ling 5931—Fundamentals of Contemporary English or a similar course may be taken with the approval of the director of undergraduate studies.

Electives—Related courses in other departments may be applied to the major with the approval of the director of undergraduate studies.

Language Requirements
Three years of college study in one foreign language or two years in one language and one year in a second language. This requirement may be satisfied by examination.

Final Project
Students must complete Ling 4901—Senior Project with a grade of S. The usual requirement for this course is the revision and sometimes expansion of a paper written for another linguistics course, but it may involve an original research paper. Each student completes this paper under the supervision of a professor. The paper must be approved by the director of undergraduate studies.

Minor Requirements
The minor program must total at least 14 upper division credits and must be approved by the director of undergraduate studies.

Option 1
3001, 3301, 5201, 5302

Option 2
3001, 4002, two additional courses.

Mathematics
School of Mathematics
B.A.
See the Institute of Technology section for the B.S.Math. program.

The School of Mathematics offers a program in the College of Liberal Arts leading to a bachelor of arts degree. The course of study is flexible and may be adapted to satisfy a wide variety of interests and needs. Students may prepare for graduate study in mathematics or may emphasize various fields of interest such as preparation for secondary school teaching, actuarial science, or programs in applied mathematics, including industrial mathematics, mathematics applicable to computer science, and numerical analysis. Programs for specializations in actuarial science and preparation for secondary school teaching earn a designation that appears on the diploma.
Degree Requirements
At least 120 credits are required for graduation. Students must complete one of the lower division sequences described below and six adviser-approved, upper division courses (including two satisfying the requirement in algebra and two satisfying the requirement in analysis). A senior project is also required.

Students must take all required courses in composition and in the major A–F. A grade of C– or better must be earned in all of these courses.

For details about what courses are appropriate for the actuarial science or secondary teaching specializations, consult your adviser or see the publication Mathematics Major Requirements, available in the Undergraduate Mathematics Office, 115 Vincent Hall, or on the Web at <www.math.umn.edu>. For courses appropriate for other interests, consult your adviser.

Required Courses

Lower Division Requirements
One of the following sequences:
Math 1211-1212-2213-2214 (Calculus I–II, Linear Algebra and Differential Equations, Multivariable Calculus)
Math 1271-1272-2273-2274 (IT Calculus I–II, IT Linear Algebra and Differential Equations, IT Multivariable Calculus)
Math 1731-1732-2733-2734 (Honors Calculus I–II–III–IV)

Students who have not taken all four semesters of Honors Calculus must also take Math 2283 or Math 3283. Math 3283 satisfies the requirement of a writing-intensive course in the major.

Upper Division Requirements
Six upper division courses, including two satisfying the algebra requirement and two courses satisfying the analysis requirement.

To satisfy the algebra requirement, a student must take two courses from the following: Math 4242, 5248, 5251, 5258, 5268, 5385, 5705 or 5707 (only one of 5705 or 5707 may be used to satisfy this requirement), 5711.

To satisfy the analysis requirement, a student must take two courses from the following: Math 4606, 5486, 5525, 5535, 5583, 5615, 5616, 5651, 5652, 5654.

The School of Mathematics will accept Stat 5101 and Stat 5012 as part of the six-course upper division mathematics requirement (content of Stat 5101 is the same as Math 5651—Basic Theory of Probability and Statistics).

Note: Math 4457 and 4458—Methods of Applied Math I and II and Math 4512—Differential Equations with Applications cannot be used as part of the six-course upper division math requirement; Math 3113 and 3118—Topics in Elementary Mathematics I and II cannot be used as part of the six courses upper division math requirement nor as part of the technical elective.

Final Project
All CLA math majors must complete a senior project. Consult your math adviser about this project before the beginning of your senior year.

Minor Requirements
Students complete all lower division requirements for the major, plus two adviser-approved upper division courses, at least one of which must be in math.

Medieval Studies

Center for Medieval Studies

Minor Only
The minor in medieval studies covers the period of roughly between 300 and 1500 A.D. It includes the history, art history, theatre and music history, literature, and languages of the period including Latin, French, Italian, English, Old English, Scandinavian, and German.

The program allows students with an interest in the medieval period or planning to pursue graduate work in one of the related areas to concentrate their studies as a coherent whole.

Requirements
Students complete 15 credits at the 3xxx, 4xxx, or 5xxx level chosen in consultation with the director of undergraduate studies of CLA’s Center for Medieval Studies from approved course lists. All applicable courses originate in other departments. Many of these are cross-listed as MeSt 3610—Topics in Medieval Studies, 4610—Intermediate Topics in Medieval Studies, and 5610—Advanced Topics in Medieval Studies. A list of these and other appropriate courses is available at the Center for Medieval Studies.

Microbiology

Department of Microbiology

B.A.
See the College of Biological Sciences section for the B.S. in microbiology.

Microbiology examines the nature and activities of microorganisms, the distinctive microscopic life forms that recycle the elements in aquatic, atmospheric, and soil environments. The field has applications for fields of industry, agriculture, and medicine. As remarkably useful model systems for research, microorganisms play a key role in the development of modern biology. This program prepares students for graduate study or professional work in microbiology.

Degree Requirements
Students must complete 120 credits to graduate, including 66 credits in the major.

Introductory courses in biology, chemistry, math, and physics are required. In addition, students complete a biochemistry course, a genetics course, MicB 3301—Biology of Microorganisms, four microbiology electives, and two advanced laboratory courses.

Required Courses
Choose introductory biology sequence A, B, or C:
A. Biol 1001–1002—Introductory Biology I–II
B. Biol 1009, Biol 3211 and Biol 2005
C. Biol 1009, Biol 3002 and Biol 3005

Choose one biochemistry course from BioC 3021 or BioC 4331
Choose one genetics course from GCB 3022 or Biol 4003

MicB 3301—Biology of Microorganisms

Choose four microbiology electives from MicB 4111, MicB 4121, MicB 4131, MicB 4141, MicB 4151, MicB 5352

Choose advanced laboratory sequence A or B:
A. MicB 4215, MicB 4235
B. MicB 4215 or MicB 4235 plus 6 credits of MicB 4994

Math 1271-1272—Calculus I–II
Chem 1021-1022—Chemical Principles I–II
Chem 2301-2302—Organic Chemistry I–II

Phys 1301-1302—Introductory Physics I–II

or
Phys 1201-1202—General Physics I–II

Final Project
Students must complete 6 credits of MicB 4993—Directed Studies or MicB 4994—Directed Research.

Internships are not required but are available. For more information, contact the Office of Student Services in CBS or the University’s Office of Special Learning Opportunities (OSLO).
Music

School of Music

Admission Requirements—Admission to a music program—B.A. degree, B.M. degree or the music minor—requires the successful completion of an audition. Auditions are highly competitive with students normally having studied for a number of years: a minimum of 3-4 years in voice, guitar, or on an orchestral or band instrument, 8-12 years on piano. Auditions are held throughout the academic year. Incoming freshmen normally take the audition during the winter of their senior year of high school; transfer students, one semester prior to the term in which they plan to enroll.

Information and guidelines about the audition may be requested from the School of Music (phone 612-624-5740, fax 612-626-2200, e-mail mus-adm@tc.umn.edu).

Although not required, it is helpful to have studied music theory either as a class in high school or college or within the framework of piano lessons.

Upon admission, transfer students are required to take exams in music theory and ear training and piano skills to determine appropriate placement in the sequences of classes within the School of Music. These exams are given in the fall prior to the beginning of classes and during the first week of classes in the spring term. Study materials for these exams are available from the School of Music.

General Requirements—Students should consult with a School of Music adviser in selecting appropriate courses. All music courses required for a degree must be taken A-F, with the exception of the music therapy internship; no S-N credits will count toward the degree requirements. Students must earn a grade of C- or better in major courses to satisfy degree requirements and to progress in sequence courses.

B.A. in Music

The B.A. program is for students who wish to major in music while enrolling in a diversified program of elective coursework outside the major.

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 53 credits in the major.

Required Courses

Music Theory and Ear Training (19 cr)
Mus 1501, 1502—Foundations of Musical Theory: Analysis and Ear-Training I-II
Mus 3501, 3502—Theory and Analysis of Tonal Music III-IV
Mus 5501—Intensive Theory and Analysis of 20th-Century Music

Musicology/Ethnomusicology (12 cr)
Mus 1801—Music, Society, and Cultures
Mus 3601, 3602, 3603—History of Western Music I-III

Keyboard (4 cr)
Mus 1151—Piano: Class Lessons I or Mus 1155 Keyboard Skills I
Mus 1152—Piano: Class Lessons II or Mus 1156—Keyboard Skills II

Applied Music (8 cr)
MusA 13xx (major instrument or voice)
Concurrent enrollment in an appropriate ensemble is required during each term in which a student is enrolled in applied music.

Ensembles (4 cr)
Mus 3230—Chorus or Mus 3410—University Wind Bands or Mus 3420—Orchestra

Music Research (3 cr)
Mus 3995—Major Project

Music Electives (3 cr)
Mus 55xx, 56xx, or 58xx

Final Project
A final research project is required.

B.M. in Music Education

The B.M. in music education is offered with two concentrations: instrumental/general and choral/general. The instrumental/general concentration requires that a student be admitted via the audition on an orchestral or band instrument; for the choral/general concentration, in voice or on piano, organ, or classical guitar.

Admission Requirements—See admission requirements at the beginning of the Music section.

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 97.5 credits in the major.

Required Courses

Music Theory and Ear Training (15 cr)
Mus 1501, 1502—Foundations of Musical Theory: Analysis and Ear-Training I-II
Mus 3501, 3502—Theory and Analysis of Tonal Music III-IV

Musicology/Ethnomusicology (12 cr)
Mus 1801—Music, Society, and Cultures
Mus 3601, 3602, 3603—History of Western Music I-III

Keyboard (4 cr)
Mus 1151—Piano: Class Lessons I or Mus 1155 Keyboard Skills I (2 cr)
Mus 1152—Piano: Class Lessons II or Mus 1156—Keyboard Skills II (2 cr)

Conducting (2 cr)
Mus 3401—Basic Conducting (2 cr)
### Applied Music (18-22 cr)
- MuEd 3302—Teaching Secondary General Music
- MuEd 3301—Teaching Elementary Vocal and General Music

### Required Courses (25 cr)
- Students successfully completing the program will meet licensure requirements to teach choral and general classroom music in grades K-12 in Minnesota.

### Instrumental/General Music Education Concentration
Students successfully completing the program will meet licensure requirements to teach choral and general classroom music in grades K-12 in Minnesota.

### Required Courses (36 cr)
- Mus 1260—Voice Class
  - or  - MusA 1404—Secondary Voice
- MuEd 1201—Introduction to Music Education
- MuEd 3301—Teaching Elementary Vocal and General Music
- MuEd 3302—Teaching Secondary General Music
- MuEd 3502—String Techniques and Teaching
- MuEd 3503—Woodwind Techniques and Teaching
- MuEd 3504—Brass Techniques and Teaching
- MuEd 3505—Percussion Techniques and Teaching
- MuEd 3516—Instrumental Music Methods
- MuEd 3350—Student Teaching in Classroom Music (4 cr)
- MuEd 3550—Student Teaching in Instrumental Music (8 cr)

### Applied Music (12 cr)
- At least six semesters (12 credits) on a major instrument (standard band or orchestral instrument). Includes 8 credits of lower division major lessons (13xx) and 4 credits of upper division major lessons (33xx).
- Concurrent enrollment in an appropriate ensemble is required during each semester in which a student is enrolled in applied music.

### Ensemble (7 cr)
- Band or orchestra required during six semesters of on-campus study to be selected in consultation with your adviser. Marching band experience is recommended if your major performance instrument is in winds or percussion. Choose 6 credits from any of the following: Mus 3410—University Wind Bands, Mus 3480—Marching Band, or Mus 3420—Orchestra.
- Chamber ensemble is required during one semester of on-campus study. Choose 1 credit from any of the following: Mus 3340—Jazz Ensemble, Mus 3350—Jazz Combo, Mus 3440—Chamber Ensemble, Mus 5430—Concerto Grosso Ensemble, Mus 5470—Woodwind Chamber Ensemble, Mus 5480—University Brass Choir, Mus 5490—Percussion Ensemble.

### Choral/General Music Education Concentration
This program is for students majoring in voice, piano, organ, or classical guitar who want to teach choral and classroom music in the elementary and secondary schools. Students successfully completing the program will meet licensure requirements to teach choral and general classroom music in grades K-12 in Minnesota.

### Required Courses (25 cr)
- MuEd 1201—Introduction to Music Education
- MuEd 3301—Teaching Elementary Vocal and General Music
- MuEd 3302—Teaching Secondary General Music
- MuEd 3350—Student Teaching in Classroom Music
- MuEd 3415, 3416—Choral Conducting and Methods I-II
- MuEd 3450—Student Teaching in Vocal Music

### Applied Music (18-22 cr)
- At least seven semesters (14 credits) in piano, voice, or classical guitar is required, including 8 credits of lower division major lessons (13xx) and 6 credits of upper division major lessons (33xx). For non-voice majors, MusA 1404—Voice-Secondary is required (4 cr). For non-piano majors, MusA 1401—Piano-Secondary is required (4 cr).
- Concurrent enrollment in an appropriate ensemble is required during each semester in which a student is enrolled in applied music 13xx or 33xx.

### Ensemble (7 cr)
- Mus 3230—Chorus or Mus 5240—Chamber Singers is required during seven semesters (1 cr each) of on-campus study, to be selected in consultation with your adviser.

### B.M. in Music Therapy
This program prepares students for a profession in music therapy, utilizing music to influence behavioral changes in people, from pre-school through geriatrics, in a variety of educational and health-related environments.

### Admission Requirements
See admission requirements at the beginning of the Music Section.

### Degree Requirements
Students must complete at least 120 credits to graduate, including at least 99 credits in the major.

### Required Courses
- **Music Therapy and Ear Training (15 cr)**
  - Mus 1501, 1502—Foundations of Musical Theory: Analysis and Ear Training I-II
  - Mus 3501, 3502—Theory and Analysis of Tonal Music III-IV

### Musicology/Ethnomusicology (12 cr)
- Mus 1801—Music, Society, and Cultures
- Mus 3601, 3602, 3603—History of Western Music I-III

### Keyboard (4 cr)
- Mus 1151—Piano: Class Lessons I
  - or  - Mus 1155—Keyboard Skills I
- Mus 1152—Piano: Class Lessons II
  - or  - Mus 1156—Keyboard Skills II

### Conducting (2 cr)
- Mus 3401—Basic Conducting

### Music Therapy (48 cr)
- MuEd 1801—Introduction to Music Therapy
- MuEd 3800—Introduction to Clinical Music Therapy Practice
- MuEd 3801—Psychology of Music
- MuEd 3804—Applications of Music Therapy I: Music Therapy for Children in Rehabilitative Settings
- MuEd 3805—Applications of Music Therapy II: Music Therapy in Long Term Care and Psychiatric Care
- MuEd 3806—Preparing for a Music Therapy Career
- MuEd 3855—Music Therapy Internship (6 months, full time)
- MuEd 3415—Choral Conducting and Methods I
- MuEd 3502—String Techniques and Teaching
- MuEd 3503—Woodwind Techniques and Teaching
- MuEd 3504—Brass Techniques and Teaching
- MuEd 3505—Percussion Techniques and Teaching

### Applied Music (12 cr)
- Minimum six semesters (12 credits). Includes 4-6 credits lower division major lessons (13xx) and 4-6 credits secondary lessons (14xx).
- Concurrent enrollment in an appropriate ensemble is required during each semester in which a student is enrolled in applied music.

### Ensemble (6 cr)
- Six semesters (1 cr each) of on-campus study to be selected in consultation with your adviser.

### Related coursework in behavioral/social/health sciences and special education is required. Consult with your adviser for specific courses.

### Internship
A six-month internship is required upon completion of all coursework. You should meet with your major adviser early in the spring semester of your junior year to plan the internship. You must have completed all coursework to be eligible to register for MuEd 3855—Music Therapy Internship (12 cr).
B.M. in Music—Jazz Studies
The B.M. program is for students who wish to complete professional studies in jazz. The program includes core studies in music, and coursework in the theory, history, and performance of jazz.

Admission Requirements—See admission requirements at the beginning of the Music section.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 78 credits in the major.

Required Courses
Music Theory and Ear Training (15 cr)
Mus 1501, 1502—Foundations of Musical Theory: Analysis and Ear-Training I-II
Mus 3501, 3502—Theory and Analysis of Tonal Music III-IV
Musicology/Ethnomusicology (12 cr)
Mus 1801—Music, Society, and Cultures
Mus 3601, 3602, 3603—History of Western Music I-III
Keyboard (4 cr)
Mus 1151—Piano: Class Lessons I or Mus 1155—Keyboard Skills I
Mus 1152—Piano: Class Lessons II or Mus 1156—Keyboard Skills II
Conducting (2 cr)
Mus 3420—Orchestra
Mus 3410—University Wind Bands
Mus 3401—Basic Conducting
Applied Music
Six semesters to include 8 credits of MusA courses at the 13xx level and 4 credits of MusA courses at the 33xx level.
Concurrent enrollment in an appropriate ensemble is required during each semester in which a student is enrolled in applied music.

Ensembles
Eight semesters to include:
Mus 3420—Jazz Ensemble or Mus 3390—Jazz Singers (4 cr)
Mus 3350—Jazz Combo and/or Mus 3390—Jazz Singers (2 cr)
Mus 3410—University Wind Bands or Mus 3230—Chorus or Mus 3420—Orchestra (2 cr each)
See departmental guidelines for ensemble requirements.

Jazz Studies (21 cr)
Mus 3331, 3332—Jazz Improvisation I-II
Mus 3351, 3352—Jazz Piano Class I-II
Mus 5336—Jazz Arranging
Mus 5341—Jazz Pedagogy
Mus 5342—Jazz Theory
Afro 3108—Black Music: A History of Jazz
Afro 3301—Music of Black Americans
Recital
A senior recital is required: Mus 0951—Senior Recital.

B.M. in Music Performance
The B.M. program is for students who wish to complete professional studies in performance.

Admission Requirements—See admission requirements at the beginning of the Music section.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 78 credits in music.

Required Courses
Music Theory and Ear Training (19 cr)
Mus 1501, 1502—Foundations of Musical Theory: Analysis and Ear-Training I-II
Mus 3501, 3502—Theory and Analysis of Tonal Music III-IV
Mus 5001—Intensive Theory and Analysis of 20th Century Music
Musicology/Ethnomusicology (12 cr)
Mus 1801—Music, Society, and Cultures
Mus 3601, 3602, 3603—History of Western Music I-III
Keyboard (4 cr)
Mus 1151—Piano: Class Lessons I or Mus 1155—Keyboard Skills I
Mus 1152—Piano: Class Lessons II or Mus 1156—Keyboard Skills II
Conducting (2 cr)
Mus 3420—Orchestra
Mus 3410—University Wind Bands
Mus 3401—Basic Conducting
Applied Music (32 cr)
MusA 13xx (8 cr)
MusA 23xx (8 cr)
MusA 33xx (16 cr)
Mus 0901—Junior Recital (0 cr)
Mus 0951—Senior Recital (0 cr)
Concurrent enrollment in an appropriate ensemble is required during each semester in which a student is enrolled in applied music.

Ensembles (4-8 semesters)
See departmental guidelines for ensemble requirements. A primary ensemble must be taken concurrently with major-level applied lessons.

Major requirements in addition to the core curriculum:
String, Woodwind, Brass, and Percussion Majors
Mus xxx Chamber ensembles (4 cr)
Piano Majors
Mus 5141—Piano Literature (2 cr)
Organ Majors
Mus 5131, 5132—Advanced Keyboard Skills I-II (2 cr each)
Mus 5151, 5152—Organ Literature I-II (3 cr each)
Voice Majors
Mus 3261—Italian Diction for Singers (1 cr)
Mus 3262—English Diction for Singers (1 cr)
Mus 3263—German Diction for Singers (1 cr)
Mus 3264—French Diction for Singers (1 cr)
Mus 3241—Vocal Literature I: German Lieder (1 cr)
Mus 3242—Vocal Literature II: French Melodie (1 cr)
Voice majors in the B.M. program must complete one semester each of French, German, and Italian. These language courses will substitute for the 8 credits of upper division elective coursework stipulated by CLA’s outside-of-major requirement.

Recital
A senior recital is required for all programs in the Performance B.M. (Mus 0951—Senior Recital).

Minor Requirements
A minor in music is available for students majoring in other fields. An entrance audition identical to that for a music major is required. The following coursework must be completed with grades of C- or better:

Music Theory and Ear Training (7 cr)
Mus 1501, 1502—Foundations of Musical Theory: Analysis and Ear-Training I-II
Musicology/Ethnomusicology (6 cr)
Two courses selected from the following:
Mus 1801—Music, Society, and Cultures
Mus 3601, 3602, 3603—History of Western Music I-III
Keyboard (4 cr)
Mus 1151—Piano: Class Lessons I or Mus 1155—Keyboard Skills I
Mus 1152—Piano: Class Lessons II or Mus 1156—Keyboard Skills II
Applied Music (4 cr)
Mus 3230—Chorus or Mus 3410—University Wind Bands or Mus 3420—Orchestra
Philosophy

Department of Philosophy

B.A.

This program offers an analysis and critique of fundamental beliefs and favored methods of the arts and sciences. Fields within the program are moral and political philosophy, history of philosophy, logic, philosophy of science, metaphysics, epistemology, and aesthetics.

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 30 credits in the major.

Students must complete at least eight philosophy courses, totaling at least 30 credits. No more than two of these courses can be at the 1xxx level. At least three courses must be at the 4xxx level or above. At least 1 credit must be earned in conjunction with the senior project through registration in one of the following courses: Phil 3910—Major Seminar, Phil 3993—Directed Studies, or Phil 4993—Directed Studies.

Required Courses

One history of philosophy course (4 cr each)
Phil 3001—General History of Western Philosophy: Ancient Period
or
Phil 3005—General History of Western Philosophy: Modern Period

One logic course (4 cr each)
Phil 1001—Introduction to Logic
or
Phil 5201—Symbolic Logic I

One epistemology course
Phil 4105—Epistemology (3 cr)

One ethical theory course
Phil 3311—Introduction to Ethical Theory (4 cr)

or
Phil 4310—History of Moral Theories (3 cr)

or
Phil 4320—Intensive Study of an Historical Moral Theory (3 cr)

or
Phil 4321—Theories of Justice (3 cr)

Electives—Students must complete at least three elective courses in philosophy. It is strongly recommended that one of these be a second course in the history of philosophy.

Final Project

A senior project is required and is typically a paper and must be completed as part of Phil 3993—Directed Studies, Phil 4993—Directed Studies, or in conjunction with the Phil 3910—Major Seminar.

Minor Requirements

Students must complete at least 14 credits in philosophy courses at the 3xxx level or above.

Physics

School of Physics and Astronomy

B.A.

See the Institute of Technology section for the B.S. Phys. program.

Physics studies the fundamental properties and interactions of all forms of matter. Experimental and theoretical investigations are combined to formulate mathematical relationships that describe and predict the behavior of nature.

The physics undergraduate program can prepare students for employment, often in an industrial or governmental laboratory. The program can also prepare students for further study at graduate or professional schools in physics, engineering, biophysics, medicine, education, law, or business.

The physics B.A. program is a liberal arts degree providing the flexibility to integrate a broad foundation in physics with coursework in physics or other disciplines.

The required courses form a minimum program—students preparing for a specific career path may want to take more physics courses than required. Electives should be chosen to customize the physics degree to the individual need of the student. Students should consult a physics adviser to help formulate objectives for undergraduate study.

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 39 credits in the major. This minimum must include six required lower division physics courses, two physics courses selected from the basic upper division physics courses, two upper division physics electives, and an additional physics project. Additional courses must include four lower division calculus courses and the remaining University liberal education requirements.

Physics majors must take all required physics and mathematics courses A-F and must earn a grade of C- or better in all of those courses (except those offered S-N only). Only students with grades of B or better in the introductory physics courses can generally expect to succeed in the major.

Required Courses

Phys 1301, 1302, 2303 or Phys 1401, 1402, 2403
Phys 2201—Introductory Thermal and Statistical Physics
Phys 2601—Quantum Physics
Phys 2605—Quantum Physics Laboratory
18 credits of 4xxx physics courses, including at least two courses from Phys 4001, 4002, 4101, 4201

A physics project must be completed, either by completing Phys 4052—Methods of Experimental Physics II or by some other means approved by the department. In either case, any credits earned may be counted toward the 18 required 4xxx credits. Either of the following four-semester mathematics sequences: Math 1271, 1272, 2243, 2263 or Math 1371, 1372, 2373, 2374

Final Project

A physics project is required. This can be satisfied by completion of Phys 4052—Methods of Experimental Physics II, in which case the 5 credits earned may be counted towards the 18-credit requirement specified under “Required Courses.” Other ways of satisfying the physics project requirement must be approved by the physics department.

Minor Requirements

The minor in physics requires 24 credits in physics and 12 credits in math, distributed as follows:

Math 1271, 1272, 2243 or Math 1371, 1372, 2373
Phys 1301, 1302, 2303 or Phys 1401, 1402, 2403
Phys 2201—Introductory Thermal and Statistical Physics
Phys 2601—Quantum Physics
Phys 2605—Quantum Physics Laboratory
3 credits in physics or astrophysics at 3xxx or above
Physiology
Department of Physiology

B.A.
This program concentrates on understanding the functions of the human body from individual cells to organ systems. It requires applying principles from a variety of physical and biological sciences.

This major is particularly appropriate for students who intend to enter medical school or graduate school and study any of a variety of biological or biomedical sciences. Required courses form a strong core in biomedical science. Students may tailor the overall degree program to specific needs. Some students may choose additional science courses in preparation for medical school or graduate school or take advantage of the freedom to pursue a more diverse undergraduate experience. Others may benefit from an opportunity to pursue a double major.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 27 credits in the major. Lower division preparation for the physiology major includes integral calculus, general chemistry, and one year of physics with laboratory. All students take physiology for majors, organic chemistry with laboratory, introductory biochemistry, genetics, and cell biology. In addition, two upper level elective courses are required for a total of four credits. These courses are chosen from a variety of pre-approved options in science or mathematics. Students may petition the director of undergraduate studies to approve additional courses as electives. Honors students must also complete at least three credits of Phsl 4095—Honors Physiology, and summa candidates must write an approved summa thesis.

Required Courses
BioC 3021 or BioC 4331—Biochemistry
BioL 4003—Genetics
BioL 4004—Cell Biology
Chem 2301—Organic Chemistry I with lab
Chem 2302—Organic Chemistry II with lab
Phsl 3071—Principles of Physiology for Majors
Two electives from a broad range of math- or science-related courses totaling 4 credits.

Political Science
Department of Political Science

B.A.
Political scientists study topics such as the exercise of power and influence; sources and resolution of conflicts; the relation of politics to the economy, culture, and other aspects of society; the adoption and implementation of public policies; and the development of political systems. These topics are studied at all levels, from local communities to the global community.

The scope of the discipline is reflected in the main areas of specialization that make up the undergraduate curriculum: political theory, comparative government and politics, international relations, and American governmental systems and processes.

In addition, undergraduates may choose from several optional concentrations: business and politics; campaigns and elections; citizenship and civic action; global politics; law and politics; democratization and development; political psychology, beliefs, and behavior; and public affairs.

Preparatory Coursework—All students must complete one 1xxx course in political science with a grade of C- or better before admittance to the major.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 32 credits in the major.
The 32 credits must include at least 24 upper division credits. The required 3xxx, 4xxx, or 5xxx courses must include at least one course in each of the following four subfields: political theory, comparative government, American government, and international relations. Up to 6 credits of internship and fieldwork courses can be counted toward the 24 credit upper division requirement.

Students must also complete a major paper.
In order to receive credit toward the major, all coursework must be taken A-F and grades of C- or better must be achieved. (The sole exception to this policy are those internship and fieldwork courses that are available only S-N.)

New Advanced Standing (NAS) students and transfer students from outside the University’s Twin Cities campus must complete at least 12 3xxx, 4xxx, and/or 5xxx credits in political science courses on the Twin Cities campus before graduation.

University students who enroll in a study abroad program through the Global Campus, the National Student Exchange Program, or elsewhere and who plan to take political science courses at other universities may transfer no more than twelve (12) upper division political science credits into their major program here.

Optional Concentrations
Students may earn an optional concentration designation by completing at least four courses from one of the concentrations listed below:

- Business and Politics: Pol 3085, 3110, 3352 4308, 4315, 4327, 4331, 4481, 4483, 4523, 4833, 4889
- Campaigns and Elections: Pol 3085, 3110, 3225, 3352, 3766, 4306, 4308, 4331, 4461, 4483, 4737, 4767
- Citizenship and Civic Action: Pol 3110, 3210, 3215, 3225, 3235, 3251, 3252, 3253, 3323, 3739, 3873, 4210, 4275, 4303, 4322, 4502, 4766, 4483, 4485, 4487, 4885, 5251, 5252, 5253
- Global Politics: Pol 3110, 3235, 3441, 3451, 3477, 3835, 3872, 3873, 4461, 4467, 4471, 4477, 4478, 4479, 4485, 4832, 4833, 4836, 4851, 4883, 4885, 4887, 4889
- Law and Politics: Pol 3110, 3225, 3252, 3253, 3323, 3872, 4275, 4309, 4501, 4502, 4523, 4561, 4881, 4883, 5252, 5253
- Democratization and Development: Pol 3110, 3210, 3235, 3253, 3323, 3441, 3477, 3739, 4210, 4275, 4303, 4322, 4471, 4477, 4478, 4479, 4487, 4523, 4766, 4885, 4889, 5253
- Political Psychology, beliefs, and behavior: Pol 3085, 3110, 3253, 3323, 3739, 3766, 4275, 4306, 4308, 4331, 4483, 4485, 4766, 4836, 4887, 5253
- Public Affairs: Pol 3085, 3110, 3215, 3235, 3321, 4306, 4308, 4309, 4315, 4322, 4327, 4481, 4483, 4501, 4523, 4832, 4833, 4836, 4881

Final Project
Students must enroll in Pol 4900 and submit a senior project or paper to the department. The paper or project should be completed in conjunction with an upper division political science elective.

Minor Requirements
Students must complete at least four courses, totaling at least 16 credits. Students must take at least one course in two of the following four subfields: (A) political theory, (B) comparative government, (C) American government, and (D) international relations.
A maximum of 8 credits at the 1xxx level may be applied toward the minor. The following courses cannot count toward fulfillment of the advanced coursework requirement: Pol 3070—Faculty-Supervised Individual Field Work, Pol 3080—Faculty-Supervised Individual Internships, Pol 3751—Fieldwork in Politics, and Pol 4970—Individual Reading and Research.

**Psychology**

**Department of Psychology**

**B.A.**

Psychology examines human behavior through environmental, genetic, physiological, and social determinants and correlates. The department strives to train students with a strong general background in psychology and an ability to think clearly and critically in a wide variety of settings. Students must fulfill distribution requirements in a wide variety of psychological topics.

Faculty and students work with related University units, including the Institute of Child Development, the Department of Computer Science and Engineering, the Carlson School of Management, the departments of psychiatry and educational psychology, the Neuroscience Graduate Program, and affiliated research units within the department, such as the Center for Cognitive Science, the Center for Interdisciplinary Research, and the Minnesota Center for Twin and Family Research. While a B.A. in psychology has proved to be a valuable and useful background for a wide variety of careers, a professional career as a psychologist requires further training.

**Preparatory Coursework—Psy 1001—Introductory Psychology.**

**Degree Requirements**

Students must complete at least 120 credits to graduate, including at least 36 credits in the major.

Degree requirements include Psy 1001—Introduction to Psychology (or its equivalent) and Psy 3005—Introduction to Research Methods and Statistics. Students must also complete at least 24 additional credits of 3xx, 4xx, or 5xx psychology courses, distributed across prescribed subject domains, and Psy 3902—Major Project in Psychology.

All courses used to fulfill minimum requirements must be taken A-F. Students must receive a grade of C- or better for all courses in the major. Students must graduate with a cumulative GPA of 2.00 or better in courses taken to fulfill major requirements.

Transfer students must complete at least four upper division psychology courses at the University to be awarded a major in psychology.

**Required Courses**

Psy 1001—Introduction to Psychology

Psy 3005—Introduction to Research Methods and Statistics

Two courses from Group A—cognitive and biological area: Psy 3011, 3013, 3051, 3061 or 5061, 4011, 4036, 5012, 5013, 5014, 5015, 5031, 5034, 5036, 5037, 5038, 5051, 5054, 5062.

Two courses from Group B—clinical, personality and social areas: Psy 3101 or 5101, 3201, 3301, 3604 or 5604, 3617, 3666, 5202, 5204, 5205, 5206, 5207, 5606, CPsy 3301, CPsy 4303.

One course from Group C—individual differences, quantitative and applied areas: Psy 3135 or 5135, 3137 and 5137, 3711, 4801, 5121, 5136, 5138, 5501, 5701, 5702, 5703, 5705, 5862, 5865.

Electives from 3xx, 4xx, and 5xx level psychology courses to satisfy the total minimum credit requirement (36 credits). A total of two courses from Psy 3960/5960, 3993, 3994 and 3996 may be used.

Psy 3902—Major Project

**Minor Requirements**

Undergraduate minors in psychology are offered in three tracks: general psychology, natural/biological science, and social science. All three tracks require completion of Psy 1001 and Psy 3005 plus four additional courses, for at least 20 credits.

**General Psychology Track**

One course from Group A of the major, one course from Group B, one course from Group C, and one elective course from any of the groups.

**Natural/Biological Science Track**

Three courses from Group A and one course from the following: Psy 3101 or 5101, 3135 or 5135, 3137 or 5137, 3604 or 5604, 3666, 5136, 5206, 5606.

**Social Science Track**

Three courses from Group B and one course from: Psy 3135 or 5135, 3711, 4801, 5121, 5136, 5138, 5501, 5701, 5702, 5703, 5705.

**Religious Studies**

**Department of Classical and Near Eastern Studies**

**B.A.**

This program introduces students to the critical study of religions, particularly the religions of antiquity. To ensure direct experience of the central texts of at least one religious tradition there is a strong element of language study. Advanced courses are required in Judaism, classical paganism and Christianity, and ancient philosophy. Concentration on the religious thought and practice of the distant past makes possible a longer perspective on religious issues and a balanced understanding of this important aspect of human behavior.

**Degree Requirements**

Students must complete at least 120 credits to graduate, including 31 credits in the major. The major includes 6 credits of electives (which may include, but are not necessarily limited to, Bible, Greek, and Roman religion; religion in the ancient Near East; religion in late antiquity and early Middle Ages; philosophy and social science approaches to religion; and further language study if the reading is in religious texts) and courses on the Old Testament, the New Testament, either Greek and Hellenistic religion or Roman religion and early Christianity, a comparative course on another religious tradition, and a course on philosophy. A major project is also required.

**Required Courses**

RelA/ANE 3201—The Bible

RelA/Clas 3072/5072—The New Testament

RelA/Clas 3071/5071—Greek and Hellenistic Religions or RelA/Clas 3073/5073—Roman Religion and Early Christianity

Phil 3001—Ancient Philosophy or other appropriate philosophy course

One comparative course certified by the director of undergraduate studies (e.g., Islam, American religions, East Asian religions)

6 credits of electives (may include language courses on religious texts)

Senior project

**Language Requirements**

One of the following languages is required of majors, and the 4 credits of the language count toward the 31 credits of the major.

Lat 3114 or Grk 3114 or Hebr 3012 or Skt 5202

**Final Project**

A senior project is required. This usually takes the form of a paper.
Minor Requirements
The minor in religious studies allows those in other majors to acquire some of the means needed for the critical study of religion. Five courses are required, of which four must be upper division courses, for a total of at least 14 upper division credits. At least one course must be taken in each of two of the following three categories: comparative study, methodology-and-philosophy, Bible-and-religion-in-antiquity. Not more than one of these courses may be a directed study course and no more than one course may be taken S-N. Grades of D are not applicable to the minor program.

Russian
Institute of Linguistics and Asian and Slavic Languages and Literatures
B.A.
The Slavic and Central Asian Languages and Literatures unit offers study of the Russian, Polish, and Iranic and Turkic languages of Central Asia as well as literature and culture of the Slavic world and Central Asia. The unit offers a major and a minor in Russian language and literature.

Preparatory Coursework—Students take two years of college-level Russian language study (Russ 1101-1102—Beginning Russian, Russ 3001-3002—Intermediate Russian completed with a minimum grade of C-) or the equivalent.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 30 credits in the major. Students must reach a level of advanced proficiency in Russian language and attain a thorough grounding in the history of Russian literature and modern Russian culture by taking required and elective courses as specified below. Students must submit a senior thesis showing familiarity with and use of Russian language sources.

Required Courses
Students must complete 30 credits of 3xxx or 5xxx courses beyond preparatory courses.
Russ 3101 and 3102—Third-Year Russian
Russ 3421—Literature: Middle Ages to Dostoevsky in Translation and Russ 3422—Literature: Tolstoy to the Present in Translation
Russ 3512—Russian Art and Culture from Peter I to the Present
Four electives (totaling 12 credits) chosen from 3xxx or 5xxx Russian courses (excluding preparatory courses)
Russ 3311—Russian Major Project

Minor Requirements
Preparatory courses: Russ 1101, 1102, 3001, 3002
Minor requirements: Russ 3001, 3002 and 6 additional credits in 3xxx-5xxx Russian courses, excluding preparatory courses

Russian Area Studies
Institute for Global Studies
Minor Only
The minor requires successful completion of the first year of Russian language (or equivalent), plus five courses (15 credits) related to Russia distributed as follows:

Geog 3181—Russia and Environors Pol 4471—After Communism: Russia and the Commonwealth of Independent States
and 6 credits (two courses) in upper division courses

Scandinavian Languages and Finnish
Department of German, Scandinavian, and Dutch
B.A.
The program teaches and conducts research in the languages and literature of the Scandinavian countries, including Finland, in the context of relevant cultural-historical background. Majors and minors are offered with concentrations in Danish, Finnish, Norwegian, and Swedish.

Preparatory Coursework—The Graduation Proficiency Test in Danish, Finnish, Norwegian or Swedish. Students may declare the major at any time during the preparatory coursework.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 34 credits in the major. This includes a core curriculum of 22 credits and an additional 12 credits of electives. One of these elective courses may be an appropriate social science course pertaining to Scandinavia, subject to the approval of the director of undergraduate studies. The major program must be approved by the director of undergraduate studies.

Required Courses
Students must complete 3011 and 3012 courses in one of the following four languages: Danish, Finnish, Norwegian, or Swedish (Dan, Fin, Nor, Swed 3011 and 3012, totaling 8 credits)
Scan 3501—Scandinavian Culture Past and Present
Scan 3504—The Immigrant Experience
Scan 4001—Scandinavian Languages for Reading
GSD 3451—Major Project in German and Scandinavian

12 additional 3xx, 4xx, or 5xx credits in Scandinavian languages and literature; one elective may be taken in an appropriate social science course in consultation with the director of undergraduate studies.

Electives—Appropriate courses in the social sciences that deal with Scandinavian topics. Scandinavian area studies courses are offered in departments such as geography, history, and sociology.

Language Requirements
Students must complete 3011 and 3012 courses in one of the following four languages: Danish, Finnish, Norwegian, or Swedish (Dan, Fin, Nor, Swed 3011 and 3012, totaling 8 credits).

Final Project
All majors must complete GSD 3451—Major Project in German and Scandinavian.
Minor Requirements
Students pursuing a minor must complete at least 14 credits. Students must complete 3011 and 3012 in one of the following four languages: Danish, Finnish, Norwegian, or Swedish (Dan, Fin, Nor, Swed) 3011 and 3012, totaling 8 credits) and 6 additional 3xxx, 4xxx or 5xxx credits in Scandinavian languages and literature.

Sociology

Department of Sociology
Sociology examines stability and change in social life by addressing the underlying patterns of social relations in formal organizations, in legal institutions, and in the family, economy, and political arena.
Coursework focuses on the criminal justice system and criminal behavior; mental health; families and close relationships; education; population (demography); urban and rural communities; politics and policy formation; social movements and social change; diverse racial and ethnic groups; and social psychology. Faculty interests in the comparative study of social relations and institutions in China, France, Japan, Germany, and the Scandinavian countries add a strong international emphasis to these areas of study. All sociology courses emphasize the skills of social inquiry necessary for analyzing patterns of social relationships.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 31 credits in the major.
All major and minor coursework must be taken A-F unless a course is only offered S-N. Courses must be completed with a grade of C- or better. Graduating with a major in sociology requires a 2.00 GPA in sociology coursework.
Transfer students who wish to be sociology majors must meet the major requirements either through coursework completed at their transfer institution or the University of Minnesota, with at least 9 credits of coursework from the University’s Department of Sociology.

B.A.
Two B.A. options are offered—Sociology: General and Sociology: Law, Criminology, and Deviance (LCD).

Preparatory Coursework—Prospective majors are encouraged to complete an introductory sociology course (Soc 1001—Introduction to Sociology or 1011—Honors: Introduction to Sociology or the equivalent from a transfer college) before officially declaring the major. B.S. majors are strongly encouraged to complete two semesters of calculus before declaring the B.S. major, providing the background necessary to complete other courses on the supportive field list of choices. Calculus is often a prerequisite for those courses.

Required Courses
Prerequisite to all upper level sociology courses is Soc 1001—Introduction to Sociology.

Sociology: General
Soc 3701—Social Theory (4 cr)
Soc 3811—Basic Social Statistics (4 cr)
Soc 3801—Sociological Research Methods (4 cr)
At least 15 sociology elective credits (five courses), including 9-12 credits (three to four courses) at the 3xxx, 4xxx level and 3-6 credits (one to two courses) of 4xxx courses

Sociology: Law, Criminology, and Deviance (LCD)
Soc 3111—Introduction to Crime and Criminal Justice (4 cr)
Soc 3701—Social Theory (3 cr)
Soc 3811—Basic Social Statistics (4 cr)
Soc 3801—Sociological Research Methods (4 cr)
At least 12 elective credits (four courses), including 3-6 credits (one to two courses) general sociology courses at the 3xxx or 4xxx level and 6-9 credits (two three courses) LCD courses at the 4xxx level

Electives—None from other departments, unless they are cross-listed with sociology and taught by a faculty member approved by the sociology department (usually approved for associate membership in the Department of Sociology).

Final Project
This requirement can be met by enrolling in Soc 4966—Advanced Project Seminar (4 cr) in order to develop a research paper, or by enrolling in Soc 4967—Advanced Senior Project Independent Study (1 cr) in conjunction with an upper division sociology elective (3 cr) taught by the same faculty member who is guiding their project.
Internships are not required. However, students are strongly encouraged to participate in at least one internship in the community to gain applied experience and expertise, which proves useful in preparing for career entry.

B.S.
The B.S. program is for students interested in developing a rigorous mathematical concentration in research methodologies. Two B.S. options are offered: Sociology: General and Sociology: Law, Criminology, and Deviance (LCD).

Preparatory Coursework—Prospective majors are encouraged to complete an introductory sociology course (Soc 1001—Introduction to Sociology or Soc 1011—Honors: Introduction to Sociology or the equivalent from a transfer college) before officially declaring the major.

Degree Requirements
The B.S. option extends and builds on course requirements for the B.A. program by including a supportive program of four courses focusing on technical and quantitative aspects of social research.
The supportive field courses consist of four additional courses (12-16 cr) at the 3xxx or 4xxx level, from departments of computer science, economics, mathematics; philosophy, psychology, educational psychology, and statistics. The courses on this list are available from the Department of Sociology.

Required Courses
See “Required Courses” in Sociology B.A.

Final Project
See “Final Project” in Sociology B.A.

Minor Requirements
Two minor options are offered: Sociology: General and Sociology: Law, Criminology, and Deviance (LCD).

Minor Requirements
Two minor options are offered: Sociology: General and Sociology: Law, Criminology, and Deviance (LCD).
Students in both minor programs must complete Soc 1001—Introduction to Sociology or 1011—Honors: Introduction to Sociology (3 cr each)

Sociology: General (14 cr)
Soc 3701—Social Theory (4 cr)
Soc 3811—Basic Social Statistics (4 cr) or if statistics has been completed in another department Soc 3801—Sociological Research Methods (4 cr)
Two 4xxx electives (totaling 6 cr) chosen from any 3xxx or 4xxx sociology electives

Law, Criminology, and Deviance (LCD) (16 cr, consisting of at least five courses)
Soc 3111—Introduction to Crime and Criminal Justice (3 cr)
South Asian and Middle Eastern Area Studies

Institute for Global Studies

Minor Only
The minor requires completion of five 3xxx-5xxx courses (totaling at least 15 credits) related to South Asia and the Middle East. Courses must be distributed as follows: minimum of one course (at least 3 credits) from the humanities; minimum of one course (at least 3 credits) from the social sciences or history. A maximum of 3 credits may be in directed studies or directed research and courses must be drawn from a minimum of three different departments. All courses must be taken A-F, with a grade of C or better. The minor program must be approved by the area studies adviser.

Minor Requirements
Students must complete 120 credits to graduate, including at least 34 credits in the major.

Required Courses
- Span 3015—Spanish Composition and Communication
- Span 3021—Advanced Communication Skills or department-approved substitute
- Span 3104—Analysis and Interpretation of Texts
- Span 3105—Introduction to the Study of Hispanic Civilizations
- Span 3107—Introduction to the Study of Hispanic Linguistics
- 15 to 18 additional elective credits in approved 3xxx or 5xxx literature, culture, and linguistics courses, chosen in consultation with the department adviser. (At least 12 credits must be in courses with a Span 31xx prerequisite.)

Final Project
All B.A. candidates must complete a major project in Spanish by registering in and attending Span 3972—Graduation Seminar (see Final Project information below)

Language Requirements
The department emphasizes student initiative and responsibility in acquiring a high level of language proficiency that is crucial for successful completion of courses beyond Span 3021 and Port 3003. The department sponsors study abroad programs in Mexico, Venezuela, and Spain; offers a course incorporating service learning in the local Chicano-Latino community; and makes available a language tutoring lab (including conversation hours) and advanced writing center during the academic year while courses are in session. A campus conversation hours) and advanced writing center during the academic year while courses are in session. A campus

Minor Requirements
Students must declare the minor within the department at least one full term before completing minor requirements and are encouraged to declare it as early as possible (preferably during preparatory coursework). Contact the department advising office for declaration procedures.

Preparatory Coursework—Span 1001, 1002, 1003, 1004/1014 or the equivalent and an appropriate passing score on the Graduation Proficiency Test (GPT) in Spanish.

Students must declare the major in the department before completing the majority of major requirements and are encouraged to declare the major within the department as early as possible (preferably during preparatory coursework). Contact the department advising office for declaration procedures.

Degree Requirements
Students must complete 120 credits to graduate, including at least 34 credits in the major.

Required Courses
- Span 3015—Spanish Composition and Communication
- Span 3021—Advanced Communication Skills or department-approved substitute
- Span 3104—Analysis and Interpretation of Texts
- Span 3105—Introduction to the Study of Hispanic Civilizations
- Span 3107—Introduction to the Study of Hispanic Linguistics
- 15 to 18 additional elective credits in approved 3xxx or 5xxx literature, culture, and linguistics courses, chosen in consultation with the department adviser. (At least 12 credits must be in courses with a Span 31xx prerequisite.)

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All B.A. candidates must complete a major project in Spanish by registering in and attending Span 3972—Graduation Seminar (see Final Project information below)

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Minor Requirements
Students must declare the minor within the department at least one full term before completing minor requirements and are encouraged to declare it as early as possible (preferably during preparatory coursework). Contact the department advising office for declaration procedures.

Preparatory Coursework—Span 1001, 1002, 1003, 1004/1014 and an appropriate passing score on the Graduation Proficiency Test in Spanish.

For information about study abroad programs, contact the Global Campus, 230 Heller Hall, 612-626-9000.

The department strongly encourages majors and minors to study abroad in a Spanish or Portuguese-speaking area. Students who wish to complete department program requirements through study abroad must meet with the department adviser prior to departure. Detailed information regarding Spanish and Portuguese studies undergraduate academic issues is printed in the department Undergraduate Advising Handbook, available in the department advising office, 5C Folwell Hall.

B.A. in Spanish Studies

Preparatory Coursework—Span 1001, 1002, 1003, 1004/1014 or the equivalent and an appropriate passing score on the Graduation Proficiency Test (GPT) in Spanish.

Students must declare the major in the department before completing the majority of major requirements and are encouraged to declare the major within the department as early as possible (preferably during preparatory coursework). Contact the department advising office for declaration procedures.

Degree Requirements
Students must complete 120 credits to graduate, including at least 34 credits in the major.

Required Courses
- Span 3015—Spanish Composition and Communication
- Span 3021—Advanced Communication Skills or department-approved substitute
- Span 3104—Analysis and Interpretation of Texts
- Span 3105—Introduction to the Study of Hispanic Civilizations
- Span 3107—Introduction to the Study of Hispanic Linguistics
- 15 to 18 additional elective credits in approved 3xxx or 5xxx literature, culture, and linguistics courses, chosen in consultation with the department adviser. (At least 12 credits must be in courses with a Span 31xx prerequisite.)

Final Project
All B.A. candidates must complete a major project in Spanish by registering in and attending Span 3972—Graduation Seminar (see Final Project information below)

Language Requirements
The department emphasizes student initiative and responsibility in acquiring a high level of language proficiency that is crucial for successful completion of courses beyond Span 3021 and Port 3003. The department sponsors study abroad programs in Mexico, Venezuela, and Spain; offers a course incorporating service learning in the local Chicano-Latino community; and makes available a language tutoring lab (including conversation hours) and advanced writing center during the academic year while courses are in session. A campus conversation hours) and advanced writing center during the academic year while courses are in session. A campus

Minor Requirements
Students must declare the minor within the department at least one full term before completing minor requirements and are encouraged to declare it as early as possible (preferably during preparatory coursework). Contact the department advising office for declaration procedures.

Preparatory Coursework—Span 1001, 1002, 1003, 1004/1014 and an appropriate passing score on the Graduation Proficiency Test in Spanish.

For information about study abroad programs, contact the Global Campus, 230 Heller Hall, 612-626-9000.

The department strongly encourages majors and minors to study abroad in a Spanish or Portuguese-speaking area. Students who wish to complete department program requirements through study abroad must meet with the department adviser prior to departure. Detailed information regarding Spanish and Portuguese studies undergraduate academic issues is printed in the department Undergraduate Advising Handbook, available in the department advising office, 5C Folwell Hall.

B.A. in Spanish Studies

Preparatory Coursework—Span 1001, 1002, 1003, 1004/1014 or the equivalent and an appropriate passing score on the Graduation Proficiency Test (GPT) in Spanish.

Students must declare the major in the department before completing the majority of major requirements and are encouraged to declare the major within the department as early as possible (preferably during preparatory coursework). Contact the department advising office for declaration procedures.

Degree Requirements
Students must complete 120 credits to graduate, including at least 34 credits in the major.

Required Courses
- Span 3015—Spanish Composition and Communication
- Span 3021—Advanced Communication Skills or department-approved substitute
- Span 3104—Analysis and Interpretation of Texts
- Span 3105—Introduction to the Study of Hispanic Civilizations
- Span 3107—Introduction to the Study of Hispanic Linguistics
- 15 to 18 additional elective credits in approved 3xxx or 5xxx literature, culture, and linguistics courses, chosen in consultation with the department adviser. (At least 12 credits must be in courses with a Span 31xx prerequisite.)

Final Project
All B.A. candidates must complete a major project in Spanish by registering in and attending Span 3972—Graduation Seminar (see Final Project information below)

Language Requirements
The department emphasizes student initiative and responsibility in acquiring a high level of language proficiency that is crucial for successful completion of courses beyond Span 3021 and Port 3003. The department sponsors study abroad programs in Mexico, Venezuela, and Spain; offers a course incorporating service learning in the local Chicano-Latino community; and makes available a language tutoring lab (including conversation hours) and advanced writing center during the academic year while courses are in session. A campus conversation hours) and advanced writing center during the academic year while courses are in session. A campus

Minor Requirements
Students must declare the minor within the department at least one full term before completing minor requirements and are encouraged to declare it as early as possible (preferably during preparatory coursework). Contact the department advising office for declaration procedures.

Preparatory Coursework—Span 1001, 1002, 1003, 1004/1014 and an appropriate passing score on the Graduation Proficiency Test in Spanish.

For information about study abroad programs, contact the Global Campus, 230 Heller Hall, 612-626-9000.

The department strongly encourages majors and minors to study abroad in a Spanish or Portuguese-speaking area. Students who wish to complete department program requirements through study abroad must meet with the department adviser prior to departure. Detailed information regarding Spanish and Portuguese studies undergraduate academic issues is printed in the department Undergraduate Advising Handbook, available in the department advising office, 5C Folwell Hall.
Required Courses
Span 3015—Spanish Composition and Communication
Span 3021—Advanced Communication Skills or a department-approved substitute.
At least one of the following: Span 3104, 3105 or 3107
Six additional credits in approved 3xxx or 5xxx literature, culture and/or linguistics courses, chosen in consultation with the department adviser. These courses must be taught in Spanish and have at least a Span 3015/3021 prerequisite.

B.A. in Spanish-Portuguese Studies (combined)

Degree Requirements
Students must complete 120 credits to graduate, including at least 35 credits in the major.

The Spanish-Portuguese studies major is under review and requirements may change at any time. Requirements at the time of this publication are specified herein but students interested in this major should consult with the department adviser regarding possible changes. Students must declare the major within the department before completing the majority of major requirements and are encouraged to declare the major as early as possible (preferably during preparatory prerequisite stages). Contact the department advising office for declaration procedures.

Preparatory Coursework—Span 1001, 1002, 1003, 1004/1014 or the equivalent and an appropriate passing score on the Graduation Proficiency Test in Spanish; and Port 3001 or Port 1101, 1102, 1103, 1104 or the equivalent and a passing score on the Graduation Proficiency Test in Portuguese.

Required Courses
Port 3003—Portuguese Conversation and Composition
Four additional 3xxx or 5xxx courses taught in Portuguese. All courses must be chosen in consultation with the department adviser.

Portuguese Studies Minor Requirements
Students must declare the Portuguese studies minor within the department at least one term before completing minor requirements and are encouraged to declare as early as possible (preferably during preparatory coursework). Contact the department advising office for declaration procedures.

Preparatory Coursework—Port 1101, 1102, 1103, 1104 or the equivalent and a passing score on the GPT in Portuguese.

Required Courses
Port 3003—Portuguese Conversation and Composition
Four additional 3xxx or 5xxx courses taught in Portuguese. All courses must be chosen in consultation with the department adviser.

Speech and Hearing Science
Department of Communication Disorders
B.A.

The curriculum examines the physical, biological, and behavioral foundations of human communication. Courses focus on the study of normal speech, language, and hearing processes, and seek to apply that knowledge to identifying, preventing, evaluating, and managing disordered speech, language, and hearing.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 40 credits in the major.

Majors are advised to select additional courses beyond those needed to satisfy the liberal education requirements in the behavioral, biological, cognitive, physical, and social sciences; mathematics; statistics; and research design and methodology.

Students planning to pursue a graduate degree are advised to register for courses required for the B.A. major on an A-F grade basis.
Required Courses
Students must complete 40 credits of required courses in this list:
- CDIs 1301—The Physics and Biology of Spoken Language
- CDIs 1401—Introduction to Communication Disorders
- CDIs 3301—Introduction to Acoustics
- CDIs 3302—Anatomy and Physiology of the Speech and Hearing Mechanisms
- CDIs 3303—Language Acquisition and Science
- CDIs 3304—Phonetics
- CDIs 3305—Speech Science
- CDIs 3306—Hearing Science
- CDIs 3402—Major Project in Speech and Hearing Science
- CDIs 4501—Speech Disorders
- CDIs 4601—Language Disorders
- CDIs 4801—Hearing Measurement and Disorders

Final Project
Completion of CDIs 3402—Major Project in Speech and Hearing Science.

Minor Requirements
Choose 14 credit hours from any 3xxx, 4xxx, or 5xxx courses in the Department of Communication Disorders. No more than 20 percent of total credits in the minor program may consist of directed study. All courses in the minor program must be completed with a grade of C- or better.

Speech-Communication
Department of Speech-Communication
B.A.
The program examines human communication using both humanistic and social scientific methods. Fields of study include speechmaking, rhetorical criticism, ethics, interpersonal, small group, organizational, intercultural, and electronic (broadcasting, cable, satellite, Internet) forms of communication.

The Department of Theatre Arts and Dance has presented theatre productions for more than 120 years.

The National Research Council ranks the statistics program as one of the top 15 in the nation.

Communication and Social Interaction Cluster
Spch 3190, 3211, 3401, 3402, 3411, 3412, 3422, 4231, 4235, 4291, 5110, 5233, 5401, 5402, 5408, 5411, 5421, 5431, 5441, 5461, 5462

Communication and Culture Cluster
Spch 3190, 3201, 3404, 3406, 3451, 3452, 3601, 3602, 3605, 3615, 3625, 3631, 4452, 4602, 4615, 4616, 4621, 5210, 5220, 5261, 5404, 5406, 5451, 5452, 5611, 5617, 5618

Final Project
Students must complete a senior paper (see above) before graduation. For details about project requirements, contact the speech-communication undergraduate advisers.

Minor Requirements
Spch 1102—Introduction to Communication
Spch 1101—Introduction to Public Speaking
or Spch 1313—Analysis of Argument

Statistics
School of Statistics
B.A.
See the Institute of Technology for the B.S.Stat. program. Statistics provides a logical framework for the collection, analysis, and interpretation of data. This data can be used to draw inferences in scientific studies and to make decisions in industrial, business, and governmental enterprises.

Degree Requirements
Students must complete 120 credits to graduate, including at least 38 credits in the major.

Requirements include 38 credits with grade C- or better, in math (including multivariable calculus) and statistics (including one year of theory and three applied statistics courses) and one computer programming course.

Required Courses
- Stat 3011—Introduction to Statistical Analysis
- or Stat 3021—Introduction to Probability and Statistics
- Stat 3022—Data Analysis
- Stat 4101-4102—Theory of Statistics I-II
- or Stat 5101-5102—Theory of Statistics I-II
- Stat 4893—Senior Paper

At least 10 credits of adviser-approved statistics electives chosen from the following:
- Stat 5031, 5041, 5201, 5302, 5303, 5401, 5421, 5601
- Math 2263—Multivariable Calculus
- Math 4242—Applied Linear Algebra

One course chosen from the following: CSci 1103, CSci 1107, CSci 1113

Final Project
Majors must complete a senior project through registration in Stat 4893—Senior Paper.

Minor Requirements
Students must complete at least 14 credits from 3xxx, 4xxx, and 5xxx School of Statistics courses, including at least two courses at the 5xxx level.

Required Courses
At least 27 credits in 3xxx, 4xxx, or 5xxx courses selected from the clusters below, including at least two 4xxx or 5xxx courses, two courses from Spch 3211, 3401, 3601, and 3 credits from Spch 3201, 3411, 3422, 3605, 3990, 4452
Theatre Arts

Department of Theatre Arts and Dance

B.A.
The theatre arts program offers study of the art form in both theoretical historical context and the practice of live dramatic performance. Course offerings include theatre history and dramatic literature; acting, movement, and voice; directing; design and technology for scenery, costume, lighting, makeup, and sound; and management. Coursework also embraces theatre as a group art, an art in which individual excellence is often fully realized only in collaboration with other artists. The practical application of the art encourages students to test classroom experiences under the pressure of public performance in the laboratory of the University Theatre.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 44 credits in the major.
This requirement includes 7 credits of electives at any level from either theatre arts or dance courses, at least 3 credits of which must be a content course. The major credits also include 4 credits of practicum (Th 3100—Theatre Practicum), only 2 credits of which may be in acting. Students are required to maintain a 2.00 GPA in the major. Transfer students must take at least 12 credits in this department, at least 1 credit of which must be Th 3100.

Required Courses
Th 1101—Introduction to Theatre
Th 1321—Beginning Acting
Th 1351—Vocal Production and Beginning Movement for Actors
Th 3513—Design and Technical Production I
Th 3515—Design and Technical Production II
Th 3711—Beginning Directing
Th 3171—History of the Theatre: Ancient Greece through Neo-Classicism
Th 3172—History of the Theatre: Romanticism to the Present
Th 3711—Beginning Directing
Th 4177—Survey of Dramatic Literature I
Th 4178—Survey of Dramatic Literature II
Th 3100—Theatre Practicum

Electives—Courses in art, art history, dance, dramatic literature, humanities, music, and playwriting are recommended as electives.

Final Project
All majors must complete Th 4901—Senior Seminar.

Minor Requirements
The theatre arts minor consists of the following courses, for a total of 23 credits:
Th 1101—Introduction to Theatre
Th 1321—Beginning Acting
Th 3513—Design and Technical Production I
Th 3515—Design and Technical Production II
Th 3711—Beginning Directing
Any two of the following: Th 3171, 3172, 4177, or 4178

Urban Studies

This cross-disciplinary major involves urban studies coursework, fieldwork experiences, internships, and coursework in disciplines that offer useful perspectives on contemporary urban and postindustrial society.
The program focuses on the conceptual and analytical frameworks and specialized skills needed for professions focused on urban change or development. Students completing the program work in public agencies or private business or pursue graduate study in urban planning, law, social welfare, public affairs, or the social and environmental sciences.
Students are encouraged to incorporate field study into the major or minor. Options include urban studies programs sponsored by the Higher Education Consortium for Urban Affairs (HECUA) in South America, Norway, and Minneapolis-St. Paul.

B.A.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 36 credits in the major.
The program requires coursework focusing on urban form and society, with additional credits from areas such as cultural analysis, and political economy and infrastructure. An internship and a senior paper are also required.
Students must complete the following courses within the program: an introductory course, two urban studies colloquia, and two workshops. The Urban Studies Program Booklet, available from the department, contains a listing of required and recommended courses, and urban-related course offerings in other academic departments that can fulfill various urban studies requirements. For more information, see <http://urbanstudies.cla.umn.edu>.

Required Courses
Urbs 1001—Introduction to Urban Studies: The Complexity of Metropolitan Life
or Urbs 3001—Introduction to Urban Studies: The Complexity of Metropolitan Life
Urbs 3201—Urban Studies Colloquium
Urbs 3202—Urban Studies Colloquium
Two sessions of Urbs 3500—Urban Studies Workshop (6 cr total)
Urbs 3900—Urban Studies Internship Seminar
Urbs 3955—Senior Paper Seminar
Two courses of at least 6 credits of skills or methods courses from the list in the Urban Studies Program Booklet (available online).

Electives—Courses from appropriate departments are identified; students choose five of these courses in identified tracks (at least 15 cr total).

Final Project
Students must complete Urbs 3955—Senior Paper Seminar.

Minor Requirements
Students pursuing a minor must consult with a program adviser to make course selections and to receive final credit verification before graduation.
The minor requires completion of 14 upper division credits, including:
Urbs 1001—Introduction to Urban Studies: The Complexity of Metropolitan Life
or Urbs 3001—Introduction to Urban Studies: The Complexity of Metropolitan Life
Women's studies offers an interdisciplinary curriculum that looks at issues of women and gender in the United States and around the world, taking into account significant social and historical variables. Women's studies also seeks to transform traditional fields of study by incorporating new data, methods, theories, and frameworks developed by feminist scholars.

The undergraduate curriculum offers five subfield concentrations: methods of inquiry; biology, psychology, and social perspectives; literature, language, film, and the arts; comparative and global studies; and civic and community studies.

In addition to the faculty in women's studies, several departments lend their interdisciplinary teaching and advisory expertise to women's studies students. Among these are the Departments of Afro-American and African Studies; American Studies; American Indian Studies; Chicano Studies; Comparative Studies in Discourse and Society; English; German, Scandinavian, and Dutch; History; Philosophy; Sociology; Spanish and Portuguese; and Speech-Communication. Affiliated programs include the School of Nursing; the Hubert H. Humphrey Institute of Public Affairs' Center on Women and Public Policy; the MacArthur Interdisciplinary Program on Global Change, Sustainability, and Justice; the Tucker Center for Research on Girls and Women in Sport; and the Center for Advanced Feminist Studies.

### Degree Requirements

Students must complete at least 120 credits to graduate, including at least 36 credits in the major.

#### Required Courses

- UrbS 3001—Introduction to Urban Studies: The Complexities of Metropolitan Life
- UrbS 3002—Urban Studies Colloquium
- UrbS 3201—Urban Studies Colloquium
- Two sessions of UrbS 3500—Urban Studies Workshop (6 cr total)
- UrbS 3900—Urban Studies Internship Seminar
- UrbS 3955—Senior Paper Seminar
- Four courses totaling at least 12 credits of skills or methods courses identified in the Urban Studies Program Booklet
- Courses from several departments are identified; students choose five of these courses (at least 15 cr total)

#### Electives

- See the Urban Studies Program Booklet for a complete listing of courses that may be applied or
- [http://urbanstudies.cla.umn.edu](http://urbanstudies.cla.umn.edu)

#### Final Project

Students must complete UrbS 3955—Senior Paper Seminar.

#### Minor Requirements

Students must complete 14 upper division credits, including

- UrbS 3001—Introduction to Urban Studies: The Complexities of Metropolitan Life
- UrbS 3002—Urban Studies Colloquium
- UrbS 3201—Urban Studies Colloquium
- Two sessions of UrbS 3500—Urban Studies Workshop (6 cr total)
- Two courses from one of the tracks (6 cr total)

#### Women's Studies

**Department of Women's Studies**

**B.A.**

Women's studies offers an interdisciplinary curriculum that looks at issues of women and gender in the United States and around the world, taking into account significant social and historical variables. Women's studies also seeks to transform traditional fields of study by incorporating new data, methods, theories, and frameworks developed by feminist scholars.