# Degree Programs and Minors

- College of Liberal Arts

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>African American and African Studies</td>
<td>158</td>
</tr>
<tr>
<td>American Indian Studies</td>
<td>158</td>
</tr>
<tr>
<td>American Studies</td>
<td>159</td>
</tr>
<tr>
<td>Ancient Near Eastern Studies</td>
<td>159</td>
</tr>
<tr>
<td>Anthropology</td>
<td>159</td>
</tr>
<tr>
<td>Architecture</td>
<td>160</td>
</tr>
<tr>
<td>Accelerated Status in Architecture</td>
<td>161</td>
</tr>
<tr>
<td>Art</td>
<td>161</td>
</tr>
<tr>
<td>Art History</td>
<td>162</td>
</tr>
<tr>
<td>Asian Languages and Literatures</td>
<td>163</td>
</tr>
<tr>
<td>Astronomy</td>
<td>163</td>
</tr>
<tr>
<td>Biblical Studies</td>
<td>164</td>
</tr>
<tr>
<td>Biology</td>
<td>164</td>
</tr>
<tr>
<td>Biology, Society, and Environment</td>
<td>164</td>
</tr>
<tr>
<td>Chemistry</td>
<td>164</td>
</tr>
<tr>
<td>Chicano Studies</td>
<td>165</td>
</tr>
<tr>
<td>Child Psychology</td>
<td>165</td>
</tr>
<tr>
<td>Chinese</td>
<td>166</td>
</tr>
<tr>
<td>Classical and Near Eastern Archaeology</td>
<td>166</td>
</tr>
<tr>
<td>Classical Civilization</td>
<td>167</td>
</tr>
<tr>
<td>Communication Studies</td>
<td>167</td>
</tr>
<tr>
<td>Computer Science</td>
<td>168</td>
</tr>
<tr>
<td>Cultural Studies and Comparative Literature</td>
<td>168</td>
</tr>
<tr>
<td>Dance</td>
<td>169</td>
</tr>
<tr>
<td>Dutch Studies</td>
<td>170</td>
</tr>
<tr>
<td>East Asian Studies</td>
<td>170</td>
</tr>
<tr>
<td>Economics</td>
<td>170</td>
</tr>
<tr>
<td>English</td>
<td>172</td>
</tr>
<tr>
<td>European Area Studies</td>
<td>172</td>
</tr>
<tr>
<td>Film Studies</td>
<td>172</td>
</tr>
<tr>
<td>Foreign Studies</td>
<td>172</td>
</tr>
<tr>
<td>French Studies</td>
<td>172</td>
</tr>
<tr>
<td>French and Italian Studies</td>
<td>173</td>
</tr>
<tr>
<td>Geography</td>
<td>173</td>
</tr>
<tr>
<td>Geology</td>
<td>174</td>
</tr>
<tr>
<td>German Studies</td>
<td>175</td>
</tr>
<tr>
<td>Global Studies</td>
<td>175</td>
</tr>
<tr>
<td>Greek</td>
<td>176</td>
</tr>
<tr>
<td>Hebrew</td>
<td>177</td>
</tr>
<tr>
<td>History</td>
<td>177</td>
</tr>
<tr>
<td>History of Medicine</td>
<td>178</td>
</tr>
<tr>
<td>History of Science and Technology</td>
<td>178</td>
</tr>
<tr>
<td>Humanities in the West</td>
<td>178</td>
</tr>
<tr>
<td>Individualized Studies</td>
<td>178</td>
</tr>
<tr>
<td>Individually Designed Interdepartmental Major</td>
<td>179</td>
</tr>
<tr>
<td>Italian Studies</td>
<td>179</td>
</tr>
<tr>
<td>Japanese</td>
<td>179</td>
</tr>
<tr>
<td>Jewish Studies</td>
<td>179</td>
</tr>
<tr>
<td>Journalism and Mass Communication</td>
<td>180</td>
</tr>
<tr>
<td>Latin</td>
<td>181</td>
</tr>
<tr>
<td>Latin American Studies</td>
<td>182</td>
</tr>
<tr>
<td>Linguistics</td>
<td>182</td>
</tr>
<tr>
<td>Mathematics</td>
<td>183</td>
</tr>
<tr>
<td>Medieval Studies</td>
<td>183</td>
</tr>
<tr>
<td>Microbiology</td>
<td>183</td>
</tr>
<tr>
<td>Music</td>
<td>184</td>
</tr>
<tr>
<td>New Media Studies</td>
<td>186</td>
</tr>
<tr>
<td>Philosophy</td>
<td>186</td>
</tr>
<tr>
<td>Physics</td>
<td>187</td>
</tr>
<tr>
<td>Physiology</td>
<td>187</td>
</tr>
<tr>
<td>Political Science</td>
<td>188</td>
</tr>
<tr>
<td>Psychology</td>
<td>189</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>189</td>
</tr>
<tr>
<td>Russian</td>
<td>190</td>
</tr>
<tr>
<td>Russian Area Studies</td>
<td>190</td>
</tr>
<tr>
<td>Scandinavian Languages and Finnish</td>
<td>190</td>
</tr>
<tr>
<td>Sociology</td>
<td>191</td>
</tr>
<tr>
<td>South Asian and Middle Eastern Area Studies</td>
<td>192</td>
</tr>
<tr>
<td>Spanish Studies</td>
<td>192</td>
</tr>
<tr>
<td>Speech and Hearing Science</td>
<td>193</td>
</tr>
<tr>
<td>Statistics</td>
<td>194</td>
</tr>
<tr>
<td>Studies in Cinema and Media Culture</td>
<td>194</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>195</td>
</tr>
<tr>
<td>Urban Studies</td>
<td>195</td>
</tr>
<tr>
<td>Women's Studies</td>
<td>196</td>
</tr>
</tbody>
</table>
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 majors 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 152 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 2001. 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 Communities, which offer academic advising and other services. Student Services staff help 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

Prospective CLA students can find information about student life and academic programs at [www.cla.umn.edu](http://www.cla.umn.edu).

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 in CLA, they should contact the Office of Admissions, University of Minnesota, 240 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455 (612-625-2008) [<http://admissions.tc.umn.edu>].

#### 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 postsecondary 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.

For official and up-to-date information about the University’s admissions policies, procedures, and deadlines, please see the latest edition of the Undergraduate Application Booklet available from the Office of Admissions or online at [http://admissions.tc.umn.edu](http://admissions.tc.umn.edu).

In fall 2001, 64 percent of CLA freshmen ranked in the top quarter of their class. 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 (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 using a combination of transfer and freshman admission criteria. The key factors considered are cumulative grade point average, course completion patterns, grade trends in the most recent 24 credits, and residency status. See Transfer Admission in the General Information section of this catalog.

Students must indicate a CLA major on the admission application to be considered for admission to CLA. Preprofessional plans are not CLA majors. Students with 60 semester (90 quarter) credits or more must declare a major on their admission application. Some majors have additional requirements for admission to the major. See additional admission requirements under individual majors in this catalog. Students are admitted in spring semester only if space is available.
Honors Program Admission

For admission to the honors program, students must be admitted to CLA through the regular application procedure described for new freshmen or new transfer students. Students applying for freshman admission must use the University of Minnesota Scholarships and Honors Programs Application. Admitted students typically rank in the top ten percent of their high school class with an ACT composite score of 28 or higher or an SAT combined score of 1260 or higher. Transfer students may apply with grade point averages of 3.50 or higher. Students may be admitted to the honors program after they enroll in the college provided they have at least three semesters remaining before graduation (ordinarily before 75 credits are completed.) For information about program eligibility and application procedures, contact the CLA Honors Division, 115 Johnston Hall, 101 Pleasant Street S.E., University of Minnesota, Minneapolis, MN 55455 (612-624-5522) or see <http://cla.umn.edu/honors/>.

Martin Luther King Program Admission

For admission to the Martin Luther King (MLK) Program, students must be admitted to CLA through the regular application procedure described for new freshmen or new transfer students. Students should indicate interest in the MLK Program on their application. For currently enrolled or returning students, information regarding the MLK Program may be obtained in 19 Johnston Hall (612-625-2300) <www.mlk.umn.edu>.

Non-degree Seeking/Postbaccalaureate Admission

Students interested in enrolling in CLA courses but not in earning a CLA degree may wish to consider enrollment opportunities available through the College of Continuing Education, 101 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455 (612-625-3333).

Advising services for CLA non-degree seeking students are available from the student communities. Please consult the Student Services Web site <www.cla.umn.edu/class/q1.php> or call 612-625-3846 for more information. Advisers aid in planning programs to suit students’ outside demands and in selecting coursework to take fullest advantage of the college’s resources.

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 Department of Theatre Arts and Dance 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.

Orientation

New students must participate in a CLA orientation program before their first semester of enrollment. College faculty and staff, together with staff from the University’s New Student Programs Office, introduce students to resources and services of the University and college. College advisers meet with students in groups and individually to explain degree requirements, answer questions, and work out initial registration for courses. Students also receive help using electronic self-registration. Orientations are scheduled up to three months before the start of the semester for which students are admitted.

New students receive their scheduled orientation date by mail, along with a variety of planning resources. Before students come to campus, they should use this information to identify various majors of interest, clarify their goals for the first semester, and consider which on-campus activities they may want to be involved in. When students come to campus they receive a CLA New Student Handbook or, if they are transfer students with a declared major, a CLA Graduation Handbook. Both handbooks contain details about registration, course selection, transfer of credits, and college services; these handbooks are to be used in conjunction with this catalog. Students who have questions about college procedures between the time they are admitted and when they enroll should contact the CLA Student Information Office, 49 Johnston Hall (612-625-2020).
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.

<table>
<thead>
<tr>
<th>Major Programs</th>
<th>Minor Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>African American and African studies</td>
<td>History</td>
</tr>
<tr>
<td>American Indian studies</td>
<td>Individualized studies (major only)</td>
</tr>
<tr>
<td>American studies</td>
<td>Interdepartmental major (major only)</td>
</tr>
<tr>
<td>Ancient Near Eastern studies (major only)</td>
<td>Italian studies</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Jewish studies</td>
</tr>
<tr>
<td>Architecture</td>
<td>Journalism and mass communication</td>
</tr>
<tr>
<td>Art</td>
<td>Latin</td>
</tr>
<tr>
<td>Art history</td>
<td>Linguistics</td>
</tr>
<tr>
<td>Asian languages and literatures</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Astronomy</td>
<td>Microbiology (major only)</td>
</tr>
<tr>
<td>Biology, society, and environment</td>
<td>Music</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Music education (major only)</td>
</tr>
<tr>
<td>Chicano studies</td>
<td>Music performance (major only)</td>
</tr>
<tr>
<td>Child psychology</td>
<td>Music therapy (major only)</td>
</tr>
<tr>
<td>Classical and Near Eastern archaeology</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Classical civilization</td>
<td>Physics</td>
</tr>
<tr>
<td>Communication studies</td>
<td>Physiology (major only)</td>
</tr>
<tr>
<td>Computer science</td>
<td>Political science</td>
</tr>
<tr>
<td>Cultural studies and comparative literature</td>
<td>Psychology</td>
</tr>
<tr>
<td>Dance</td>
<td>Religious studies</td>
</tr>
<tr>
<td>Economics</td>
<td>Russian</td>
</tr>
<tr>
<td>English</td>
<td>Scandinavian languages and Finnish</td>
</tr>
<tr>
<td>French studies</td>
<td>Sociology</td>
</tr>
<tr>
<td>French and Italian studies (major only)</td>
<td>Spanish studies</td>
</tr>
<tr>
<td>Geography</td>
<td>Spanish-Portuguese studies</td>
</tr>
<tr>
<td>Geology</td>
<td>Speech and hearing science</td>
</tr>
<tr>
<td>German studies</td>
<td>Statistics</td>
</tr>
<tr>
<td>Global studies</td>
<td>Studies in cinema and media culture</td>
</tr>
<tr>
<td>Greek</td>
<td>Theatre arts</td>
</tr>
<tr>
<td>Hebrew</td>
<td>Urban studies</td>
</tr>
<tr>
<td></td>
<td>Women’s studies</td>
</tr>
</tbody>
</table>

Students may prepare in CLA for the following professional programs (preparation for these involves one to four years of study in CLA).

Architecture
Dental hygiene
Dentistry
Education
Law
Management
Medical technology
Medicine
Mortuary science
Nursing
Occupational therapy
Pharmacy
Physical therapy
Public affairs
Public health
Recreation, park, and leisure studies
Veterinary studies

CLA offers additional minor programs in the following subjects.

<table>
<thead>
<tr>
<th>Minor Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biblical studies</td>
</tr>
<tr>
<td>Dutch studies</td>
</tr>
<tr>
<td>East Asian studies</td>
</tr>
<tr>
<td>Environmental geosciences</td>
</tr>
<tr>
<td>European area studies</td>
</tr>
<tr>
<td>Foreign studies</td>
</tr>
<tr>
<td>History of medicine</td>
</tr>
<tr>
<td>History of science and technology</td>
</tr>
<tr>
<td>Humanities in the West</td>
</tr>
<tr>
<td>Latin American studies</td>
</tr>
<tr>
<td>Medieval studies</td>
</tr>
<tr>
<td>New Media studies</td>
</tr>
<tr>
<td>Russian area studies</td>
</tr>
<tr>
<td>South Asian and Middle Eastern area studies</td>
</tr>
</tbody>
</table>
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 African American and African studies, American studies, studies in cinema and media culture, classical civilization, cultural studies and comparative literature, individually designed interdepartmental major, global studies, Jewish studies, Latin American 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 (IDIM)—The IDIM 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 IDIM, 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 have coherence based on stated academic objectives. This program has much in common with the IDIM—student initiative in proposing courses, close contact with faculty advisers, highly individualized programs. It differs from the IDIM 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, see the Degree Programs section starting on page 158 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 courses. It is not a requirement for graduation, but is an option for all students at the University. CLA students may choose a minor from another college at the University; likewise, all CLA minors are open to students in other colleges.

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 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 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 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 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 Career and Community Learning Center.

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 credits from the University of Minnesota, at least 24 of which must be taken after admission to the major and 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. 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 credits.

Students must complete all campus, college, and program requirements with a minimum GPA of 2.00 in the major and a cumulative GPA of 2.00 or higher in all University coursework.

All degree programs require a C- or better in each course in the major or minor.

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 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 page 31 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 earn 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. Students should contact their 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 CLA Language Testing Program (612-624-0862) or see the Web site <www.langtest.umn.edu> 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 adviser 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 a major and its communities, see the Student Services Web site <www.cla.umn.edu/class/a1.php> or call the assistant dean’s office for CLA Student Services (612-625-3846).

Advising for Special Programs

Honors Division—115 Johnston Hall (612-624-5522) <http://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

Career and Community Learning Center (CCLC)

135 Johnston Hall and 345 Fraser Hall (612-624-7577) <www.cclc.umn.edu>

The Career and Community Learning Center (CCLC) coordinates career services, internships, community involvement, and service learning opportunities for CLA students and assists them with independent and directed study options. CCLC’s Web site, “CLA Link” <www.cclc.umn.edu>, enables students to post their résumés online and search job, internship, and volunteer opportunities. CCLC 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 a CCLC adviser for information on both credit and the grant program.

Service Learning—Community involvement and service-learning 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 service-learning courses or done individually through CCLC to enrich an academic program. CCLC provides an annual community involvement fair which brings over 70 local organizations to campus. 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. Incoming first-year students interested in community work can choose to live in a service-learning house.

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 CCLC 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 CCLC 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 contact 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 Career and Community Learning Center (CCLC), 135 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.

CCLC 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. CCLC 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, clasb@umn.edu)

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 African American and African Studies
808 Social Sciences Building
624-9847

Department of American Indian Studies
2 Scott Hall
624-1338

Department of 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

Department of Asian Languages and Literatures
453 Folwell Hall
624-4180

Center for Austrian Studies
314 Social Sciences Building
624-981

Department of Chicano Studies
2 Scott Hall
624-6309

Classical Civilization Program
300 Folwell Hall
625-7565

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

Center for Cognitive Sciences
205 Elliot Hall
625-9367

Department of Communication Disorders
115 Shevlin Hall
624-3322

Department of Communication Studies
225 Ford Hall
624-5800

Department of Cultural Studies and Comparative Literature
350 Folwell Hall
624-8090

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 Center for Continuing Education
624-1503

European Studies Consortium
214 Social Sciences Building
624-9007

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

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

Modern Greek Studies
325 Social Sciences Building
624-4526

Department of History
614 Social Sciences Building
624-2800

Center for Holocaust and Genocide Studies
100 Nolte Center for Continuing Education
626-2235

Humanities Institute
101 Nolte Center for Continuing Education
624-7032

Humanities Program
831 Haller Hall
625-6365

Immigration History Research Center
311 Anderson Library
625-4800

Individualized Degree Programs
345 Fraser Hall
624-8006

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

Dwoorsky Center for Jewish Studies
330 Folwell Hall
625-5353

School of Journalism and Mass Communication
111 Murphy Hall
624-9824

Minnesota Journalism Center
416 Classroom-Office Building
625-7300

Center for Women’s Education
303 Folwell Hall
625-5353

Center for Women’s Studies
303 Folwell Hall
625-5353

Department of Women's Studies
214 Social Sciences Building
624-6635

Center for Political Psychology
1282 Social Sciences Building
624-8064

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
25 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

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
624-3060

University Theatre
110 Rarig Center
625-5380

Urban Studies Program
348 Social Sciences Building
626-1626

Department of Women's Studies
415 Ford Hall
624-6006

Student Board
12 Johnston Hall
626-0348

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

Center for Medieval Studies
131 Nolte Center for Continuing Education
626-0805

School of Music
200 Ferguson Hall
624-5093

Department of Philosophy
831 Haller Hall
625-6563

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

College of Liberal Arts
157

CLA students can take advantage of over 1,300 different internship programs through the Career and Community Learning Center (CCLC).
African American and African Studies

Department of African American and African Studies

B.A.
This major offers three 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 African American studies track provides a comprehensive knowledge of African American history, psycho-social issues, and culture. The African studies track focuses on the history, social sciences, and cultures of Africa. All three 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 African 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 3xxx, 4xxx, or 5xxx course credits, including a 3xxx, 4xxx, or 5xxx statistics or methods course approved by the undergraduate adviser; sequences in African American history and/or African history; 12 credits in group concentration and 6 credits outside the concentration; at least 3 credits from a course that examines gender issues; one 4xxx or 5xxx seminar or proseminar; and a senior paper. Students may receive a maximum of 2 credits toward the major for approved domestic or foreign internships. Specific requirements vary depending on selected track. Consult the student handbook of the Department of African American and African Studies for details. Students selecting this major should consult with the undergraduate adviser, including at least 6 credits from each of the following:

- Group 2: Political and Social Issues
- Group 3: Culture and History
- Group 4: Tribal Arts and Humanities

Language Requirements
CLA language requirement must be met in one of the following languages: French, German, Dutch, Portuguese, Spanish, Arabic, Swahili.

Final Project
An approved senior thesis represents the culmination of a student’s degree program and should develop from the concentration defined by earlier coursework. Students work with a selected faculty member over two semesters and must register for Afro 3991-3992—Senior Paper. An annotated bibliography and thesis statement should be completed by the end of the first semester, and a final draft completed midway through the second term. The final paper must be submitted to the director of undergraduate advising for inclusion in the department’s collection. Students register for Afro 3991-3992—Senior Paper.

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 American Indian history, culture, language, literature, the arts, philosophy, religion, political and social forces, and the legal status and sovereignty of tribal nations. Two tracks in the major (language focus and non-language focus) and a minor are offered.

Preparatory Coursework—Students take Amln 1001—Indigenous Peoples: An American Perspective.

Degree Requirements
Students must complete at least 120 credits to graduate, including Amln 1001—Indigenous Peoples: An American Perspective or Amln 1002—Indigenous Peoples: A Global Perspective 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 (20 credits) sequence in Dakota (Amln 1101-1102-3103-3104) or Ojibwe (Amln 1121-1122-3123-3124) language
At least 14 more credits, including at least 3 credits from each of the following:
- Group 2—Amln 3201, 3301, 3303, 3401, 4201, 4402
- Group 3—Amln 3409, 3701, 3711, 3871, 3872, 3876, 4721
- Group 4—Amln 3501, 4501, 4511, 4515, 4525

Non-Language Focus
At least 30 credits, including at least 6 credits from each of the following:
- Group 2—Amln 3201, 3301, 3303, 3401, 4201, 4402
- Group 3—Amln 3409, 3701, 3711, 3871, 3872, 3876, 4721
- Group 4—Amln 3501, 4501, 4511, 4515, 4525

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

American Indian Studies Minor
Students take Amln 1001—Indigenous Peoples: an American Perspective or Amln 1002—Indigenous Peoples: A Global Perspective and at least 15 upper division credits approved by the department adviser, including at least 3 credits from each of the following:
- Group 2—Amln 3201, 3301, 3303, 3401, 4201, 4402
- Group 3—Amln 3701, 3711, 3871, 3872, 3876, 4721
- Group 4—Amln 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, 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, and history, plus one course in world cultures. Four courses within this major sequence must be concerned with ethnic or women’s studies. Some internships may be used to satisfy major requirements.

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 3xxx 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).

American Studies Minor
Students take at least 15 credits of American studies courses. All courses must be at 3xxx 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 to 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
Class 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 3601—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 beings—past, present, and around the world. It covers human origins and evolution, past societies, and the diverse cultural practices and languages of living groups. By exploring human nature, and by trying to understand people as they live and develop in different social, cultural, and ecological settings, anthropology also stimulates us to become more thoughtful about our own society and lifestyles as well as those of people in other parts of the world. Anthropologists play a leading role in inquiries into human nature and influence discussions of ethnicity, gender, inequality, popular culture, and the effects of the global economy and mass culture. The program’s goal is to provide instruction and support to undergraduates to enable them to think critically about society and culture and to utilize this training in their working lives.

Preparatory Coursework—Students must complete Anth 1001—Human Evolution and either Anth 1003W—Understanding Cultures or Anth 1005W—Introduction to Cultural Diversity and the World System with a grade of C- or better.

Degree Requirements
Students must complete at least 30 credits in the major. In general, all students take introductory-level courses in both sociocultural anthropology and archaeology. Students concentrating in archaeological science take Anth 3001; students concentrating in sociocultural anthropology take Anth 3003. All students complete either a senior seminar, for which they write a substantial research paper, or an individualized senior research project supervised by a faculty member. All students take five electives.

Required Courses

Introductory Courses
Anth 1001/1001H—Human Evolution
Anth 1003W/1003V—Understanding Cultures
or Anth 1005W/1005V—Introduction to Cultural Diversity and the World System

Basic Method and Theory Courses (two courses)
Anth 3001—Introduction to Archaeology
Anth 3003—Cultural Anthropology
Anth 3005—Language and Sociocultural Analysis
Senior Seminar/Project
Anth 4011—Senior Seminar
or Anth 3913—Senior Project Planning
and Anth 4013—Senior Project
Note: Honors students must take Anth 3913 and 4013.

Anthropology Electives
Five courses; at least one from each of the following three categories. Three of the five required electives must be 4xxx or 5xxx courses.
Approaches to anthropology—Anth 3007, 3009, 3041, 3221, 3310, 4001, 4003, 4019, 4021, 4023W, 4025, 4031, 4035, 5025W, 5029, 5033, 5041, 5244
Ethnographic and regional studies—Anth 3010, 3011, 3013, 3017, 3020, 3023, 3025, 3027W, 3028, 3029, 3031, 4043, 4045, 4047, 5027W
Institutions and issues—Anth 3035, 3041, 3043, 3047W, 4045, 4051, 4053, 4057, 4061, 4065, 4067, 4097, 4071, 4075, 5045, 5128
Elective requirements may be at least partially satisfied by Anth 4991—Independent Study, Anth 4992—Directed Readings, Anth 4993—Directed Study, Anth 4994W—Directed Research and Anth 3310, 3980, 4980, 4990, 5980, 5990—Topics courses.

Final Project
Anth 4011—Senior Seminar or Anth 4013—Senior Project Planning and Anth 4013—Senior Project. For Anth 4013 (1 credit) and 4013, students complete an individualized research project, which they design and conduct, under the supervision of a faculty member. Honors students must take Anth 4013 and 4013.

Anthropology Minor
Introductory Courses
Anth 1001/1001H—Human Evolution
Anth 1003W/1003V—Understanding Cultures
or Anth 1005W/1005V—Introduction to Cultural Diversity and the World System
In addition, students take four 3-credit anthropology courses that have a common focus at 3xxx or above. Specific coursework is determined 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 bachelor of science degree with a major in architecture.
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 emphasizes the development of architecture as a language of form, space, and order. The program 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 program 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 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 in Minnesota.

Beginning fall 2002, all CALA students in studio classes must have a laptop computer. For the most current information about computer requirements, visit the CALA Web site at <www.cala.umn.edu/>.

Admission Requirements—Students apply to the major the semester they will complete 55-60 credits, including all preparation courses. Students are admitted to the major based on space availability and academic record. A minimum GPA of 2.50 is required and a 2.80 GPA is recommended.
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. (CLA Society & Culture Student Community, 122 Johnston Hall, 612-624-2549; Martin Luther King Program (MLK), 19 Johnston Hall, 612-625-2300; CLA Honors Program, 115 Johnston Hall, 612-624-5522)
3. Meet with a Department of Architecture undergraduate adviser in the College of Architecture and Landscape Architecture (CALA) Office of Student Services, 612-626-1000. Bring a copy of the completed Pre-Architecture Planning Sheet and a current unofficial transcript to the appointment. Students should be prepared to state the courses they will take for their concentration or minor.

Students interested in taking CALA courses but not earning a degree should enroll in CALA as a non-degree seeking student through the Office of Admissions.

Degree Requirements
To complete the degree, 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 42 credits must be in the major.
During their 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)

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 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 3401W—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)
Architecture Major Requirements (24 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 3xxx-5xxx—Student’s choice within area of interest including at least one Arch 5xxx history course (9 cr min)

Concentration or Minor
B.A. majors complete a concentration (18-credit minimum) of 3xxx-5xxx courses outside the major, or a minor outside the major, as a means to broaden the social, cultural, and international aspects of their interest area. Any formal University minor will satisfy this requirement. Courses for a concentration are chosen from various disciplines that impact design decisions (e.g., economics, geography, housing, natural resources, and urban studies). Developing and selecting courses for the concentration is the responsibility of the individual student but must be done in consultation with an architecture adviser. The student must present the concentration or minor when applying to the major because it becomes an integral part of the Major Program Form. As individual goals change, the approved concentration or minor may be revised by consulting the CALA Office of Student Services and amending the Concentration Program Form.

Accelerated Status in Architecture

This status is a competitive opportunity for qualified undergraduates to complete the B.A. degree with a major in architecture and the M.Arch. degree in six years rather than seven. Accelerated status applicants must complete all but 14 credits of upper division architecture courses before their senior year.

In this program students complete the first year of the graduate professional degree program in their senior year; courses carry upper division credit. Admission to accelerated status does not guarantee admission to the graduate professional program; separate requirements, such as the Graduate Record Examination (GRE) and other application documents, must be submitted in January of the year admission to the graduate program is sought. For more information about accelerated status, consult the Department of Architecture director of undergraduate studies or CALA Office of Student Services.

To be considered for accelerated status, students must be enrolled at the University as a B.S. or B.A. major in architecture, have completed one year of architecture design studio (Arch 5281, Arch 5282), have completed 90 credits, and have earned an overall GPA of 3.50. See an adviser in CALA Office of Student Services for additional criteria. Deadline for consideration is March 15.

Architecture Minor

An undergraduate minor in architecture introduces the foundational ideas of the discipline as a social, cultural, historic, and environmental construct. The minor 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 3401W—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 adviser in CALA Office of Student Services, 107 Architecture 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.
College of Liberal Arts

Required Courses

ArtS 1001W—Introduction to Visual Arts

Two-dimensional expression:
ArtS 1101—Drawing

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 ArtH (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 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 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 drawing, a course in three-dimensional concepts, a course in the reproducible media, and an elective 1xxx ArtS course.

Major coursework requires a course in critical theory from a related discipline, ArtS 5400 (3 credits), three courses in the history of art, an internship experience (1-3 credits), and a minimum of 30 credits 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 better apply to the major.

Required Courses

Arts 1001W—Introduction to Visual Arts

Two-dimensional expression: Arts 1101—Drawing

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 3496—Internship in the Arts

ArtS 3400—Seminar: Concepts and Practices in Art

30 cr ArtS 3xxx or above

9 cr ArtH (6 cr must be 3xxx or above)

A course in critical theory from a related discipline (as approved by the department)

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.

Art Minor

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 better 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, 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.

Art History Minor

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.
Asian Languages and Literatures

Department of Asian Languages and Literatures

B.A.

Asia is an increasingly important part of world politics, economics, and culture. A major in Asian languages and literatures (ALL) prepares students to interact with the people and cultures of Asia.

Students in the Asian languages and literatures program study an Asian language—Chinese, Hindi, Hmong, Japanese, Korean—as well as methods of literary and cultural analysis. The language study provides advanced spoken and written skills that allow students direct access to both the people and cultures of Asia where over half the world population lives. The analytical courses give students a theoretically sophisticated understanding of the rich literary and cultural texts—from the accepted literary canon to popular culture and film.

The major has three concentrations—Chinese, Japanese, South Asian—each of which introduces a broad range of language, literary, and cultural texts. Along with ALL concentration courses, students take related electives outside the department and should take at least one course related to another area of Asia. The deeper, concentrated study in upper level courses, leads to the senior project.

Study abroad is strongly encouraged and can contribute credit to the major.

Preparatory Coursework—The Graduation Proficiency Test in Chinese, Hindi, or Japanese or an equivalent level of demonstrated proficiency in the language as determined by the appropriate language program.

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 35 credits in the major beyond the preparatory coursework.

Required Courses

ALL 3100—Introduction to Asian Literature

Two semesters (8 credits) of advanced language training (third level or above) in the same Asian language, either modern or its classical analogue. Students with advanced ability in the language will substitute 5xxx literature/culture courses offered by the department in lieu of the major language requirement.

Three courses (9-12 credits) in one Asian literature/culture offered by the Department of Asian Languages and Literatures that are of the same or related designator as the language of the student’s area of concentration (Chn, Hndi, SALC, Jpn). The courses must include both modern and classical with at least one course at 5xxx. Language courses do not apply.

Three courses (9-12 credits) in at least two of the following areas: advanced Asian language, Asian literature/culture, Asian linguistics, Asian history, or other Asian-related courses in the humanities or social sciences. Normally these would be in the area of the student’s concentration, but they could come from other courses with director of undergraduate studies approval.

One Asian literature/culture or Asian linguistics course, or two semesters of an Asian language, that is not in the concentration (3-10 credits). With director of undergraduate studies approval, this course can come from outside the Department of Asian Languages and Literatures.

ALL 4900W—Major Project (1 credit) is usually taken in conjunction with an advanced language or literature course in the senior year. Other Asian language or literature/culture courses to meet the 35-credit requirement.

Students with native or near-native ability in an Asian language are encouraged to study another Asian language; if not, they will do their coursework in literature and related fields, to complete the equivalent credits in the major or minor.

Electives

Students are strongly encouraged to take courses with a focus on Asia in related disciplines.

Language Requirements

The program requires two semesters of study beyond the four-semester CLA language requirement. Four semesters of advanced language study is highly recommended.

Final Project

A major project is required of all majors, including registration in ALL 4900W during the senior year. Project proposals must be approved by the faculty adviser and the department chair prior to beginning the project and registering for ALL 4900W. The project generally takes the form of a paper, but other forms of project may be considered. The final project must be reviewed and approved by the faculty adviser.

Asian Languages and Literatures Minor

Four semesters (any level) of one Asian language (Chinese, Hindi, Japanese, or Korean).

ALL 3100—Introduction to Asian Literature

Two upper division courses in one Asian literature/culture that are of the same or related designator (Chn, Hndi, SALC, Jpn, Kor) as the language of the student’s area of concentration.

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 or Math 2373 and 2374 or Math 2573 and 2574 (8 cr); and Phys 1301-1302-2503 or Phys 1401-1402-2403 (12 cr) before being admitted to the major. Ast 1011—Exploring the Universe, Phys 1301-1302-2503 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 astrophysics research.

Required Courses
Ast 2001—Introduction to Astrophysics (4 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)
Two 4xxx or 5xxx courses in astronomy (8 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.

Astronomy Minor
Ast 1001—Exploring the Universe (4 cr)
or Ast 1011—Exploring the Universe (4 cr), Honors is recommended but not required
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.
For current information, see <www.umn.edu/commpub/c_cla/cla.html>.

Biology, Society, and Environment

B.A.
This program will be available in fall 2002. For a complete description and list of requirements, see <www.umn.edu/commpub/c_cla/cla.html>.

Chemistry

Department of Chemistry

B.A.
See the Institute of Technology section for the B.S.Chem. 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, 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 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.
For current information, see <www.umn.edu/commpub/c_cla/cla.html>.

Biology, Society, and Environment

B.A.
This program will be available in fall 2002. For a complete description and list of requirements, see <www.umn.edu/commpub/c_cla/cla.html>.

Chemistry

Department of Chemistry

B.A.
See the Institute of Technology section for the B.S.Chem. 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, 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 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.
For current information, see <www.umn.edu/commpub/c_cla/cla.html>.

Biology, Society, and Environment

B.A.
This program will be available in fall 2002. For a complete description and list of requirements, see <www.umn.edu/commpub/c_cla/cla.html>.

Chemistry

Department of Chemistry

B.A.
See the Institute of Technology section for the B.S.Chem. 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, 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 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.
For current information, see <www.umn.edu/commpub/c_cla/cla.html>.

Biology, Society, and Environment

B.A.
This program will be available in fall 2002. For a complete description and list of requirements, see <www.umn.edu/commpub/c_cla/cla.html>.

Chemistry

Department of Chemistry

B.A.
See the Institute of Technology section for the B.S.Chem. 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, 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 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.
All required courses must be taken A-F. A grade of C- or better is required in all technical courses. By selecting appropriate electives it is possible for a student to construct a program with emphasis in special interest areas, such as bioscience, chemical physics, education, environmental chemistry, and materials chemistry. Other special interest areas are also possible and chemistry advisers can be helpful in designing such programs. It is also possible for student to do dual degrees but this option requires careful course planning and should be discussed as early as possible with a chemistry adviser. All chemistry majors are advised by faculty and staff in the chemistry advising office. Each student plans his or her degree program by submitting one-year plans in consultation with an adviser.

**Required Courses**

- Bio 111—biology, with lab that meets liberal education requirement (4 cr)
- Chem 111—Chemical Principles I (4 cr)
- Chem 121—Chemical Principles II (4 cr)
- Chem 201—Introductory Analytical Chemistry Lecture (3 cr)
- Chem 2111—Introductory Analytical Chemistry Lab (2 cr)
- Chem 2301—Organic Chemistry I (3 cr)
- Chem 2302—Organic Chemistry II (3 cr)
- Chem 2311—Organic Lab (4 cr)
- Chem 3501—Physical Chemistry I (3 cr)
- Chem 3502—Physical Chemistry II (3 cr)
- Chem 4701—Inorganic Chemistry (3 cr)
- Chem 2094 or 4094—Directed Research (1-3 cr)
- EngC 1011—University Writing and Critical Reading (4 cr)
- Math 1271—Calculus I (4 cr)
- Math 1272—Calculus II (4 cr)
- Math 2263—Multivariable Calculus (4 cr)
- Phys 1301—Introductory Physics I (4 cr)
- Phys 1302—Introductory Physics II (4 cr)
- Advanced chemistry lab elective (4 cr) from Chem 4111, 4311, 4511, 4711, 5223
- Advanced technical elective (3-4 cr)

**Chemistry Minor**

Students take Chem 2301—Organic Chemistry I; Chem 2302—Organic Chemistry II; Chem 2311—Organic Lab (9-10 credits).

In addition, students complete a minimum of 5 credits at 2xxx or higher in Chem lab or lecture courses. Credits from seminars or special topics courses may not be applied toward the minor. A maximum of 2 credits of directed study may be applied toward the minor. All coursework must be taken A-F and grades of C- are required in the minor program courses. At least 5 credits (two courses) must be completed at the University of Minnesota, Twin Cities.

**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, literary, and cultural studies methodologies and perspectives on the European conquest and its aftermath; the place of Indians and African slaves in the new societies of the Caribbean, Mexico, Central and South America; and Mexican people in the United States after 1848. Courses in the curriculum examine the culture, literature, and history of Cuba, Puerto Rico, Central America, Mexico and the experiences of Chicana/os and Latina/os in the United States. 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 core sequence, Chic 1105 and Chic 1106, in the first or second year. These courses offer a general introductory survey of major historical figures, geography, literature, and culture. Courses at 3xxx offer more focused opportunities to examine history, society, culture, literature, and gender. Students must also complete a senior paper.

**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 to compile 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).

**Chicano Studies Minor**

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, 3375, 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.

Students completing the degree program in child psychology may not receive a second degree from the Department of Psychology.

Child psychology degree candidates may not use course credits from psychology or educational psychology to count toward the required 18 3xxx, 4xxx, and 5xxx credits outside the major department.

Preparatory Coursework—Students take CPsy 2301—Introductory Child Psychology and Psy 1001—Introduction to Psychology to prepare 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, 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 4347) that may include literature review or research.

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

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

Final Project
Senior project CPsy 4347 (2 cr) (either literature review or research project) must be completed before graduation.

Child Psychology Minor

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)

Chinese

See Asian Languages and Literatures.

Classical and Near Eastern Archaeology

Department of Classical and Near Eastern Studies

B.A.

This 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)
Clas 3152—Greek Art and Archaeology (4 cr)
Clas 3162—Roman Art and Archaeology (4 cr)
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 5112—Archaic and Classical Greek Art
Clas 5103—Hellenistic and Early Roman Art and Archaeology
Clas 5108—Greek Architecture
Clas 5172—Roman Art in the Private Sphere
Clas 5182—Public Art in the Roman Empire

Group 2. The Near East
Clas 3142—Art of Egypt
Clas 35088—Archaeology in Biblical Lands I: Old Testament Period
Clas 35089—Archaeology in Biblical Lands II: New Testament Period
Anth 3011—Archaeology of the Ancient Near East

Group 3. Field/Lab Work*
Clas 35340—Practicum in Archaeological Field and Computer Techniques
Clas 5120—Field Research
Anth 4004—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.
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, including at least 36 credits in the major in twelve approved courses, eight of them at or above 3xxx, including two courses with the ClCv 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 and aims of several disciplines.

Required Courses

Language and literature (three courses, 9 cr)
Art, art history, archaeology (three courses, 9 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 CLA 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.

Classical Civilization Minor

In addition to satisfying a language requirement (at least two courses in either the Greek or 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.

Communication Studies

Department of Communication Studies

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.

Students select courses from the Communication and Social Interaction Cluster and Communication and Culture Cluster.

Preparatory Coursework—Students seeking admission to the major must first meet with a communication studies adviser in 278 Ford Hall to declare a premajor. Students are strongly encouraged to declare their major during their first or second year.

Students must complete the following two courses to be admitted into the major:
Comm 1101—Introduction to Public Speaking
Comm 1313—Analysis of Argument

Degree Requirements

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

Students must complete at least 27 credits in 3xxx, 4xxx, or 5xxx courses selected from the two clusters that comprise the undergraduate curriculum. Students must take at least 15 credits from one cluster and at least 6 credits from the other.

A senior paper must also be completed in a 4xxx or 5xxx course designated as a senior paper course. The department’s advising office has a list of eligible courses.

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 Comm 3211, 3401, 3601, and 3 credits from Comm 3201, 3411, 3422, 3605, 3990, 4452

Communication and Social Interaction Cluster
Comm 3190, 3211, 3401, 3402, 3411, 3411, 3441, 3442, 4231, 4235, 4291, 5110, 5233, 5401, 5402, 5408, 5411, 5421, 5431, 5441, 5461, 5462

Communication and Culture Cluster
Comm 3190, 3201, 3404, 3405, 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 communication undergraduate advisers.
Communication Studies Minor
Comm 1101—Introduction to Public Speaking
or Comm 1313—Analysis of Argument
Five courses selected from the two clusters, with at least three courses from one cluster, and one from the other cluster. One of the five courses must be at the 4xxx or 5xxx level, and two of the courses must be from the following core courses: Comm 3211, 3401, 3601.

Computer Science

Department of Computer Science and Engineering

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 cumulative GPA of 2.70 in University of Minnesota coursework and must have completed the required preparatory courses with a grade of C- or better in each course. However, if the GPA in the required preparatory courses is below 2.70, the department may deny admission to the major.

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
Math 2243—Differential Equations and Linear Algebra
CSci 1901—Structure of Computer Programming I
CSci 1902—Structure of Computer Programming II
CSci 2011—Discrete Structures of Computer Science

For details about current admission requirements, see the Department of Computer Science’s Undergraduate Guide.

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 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 elective 4xxx or 5xxx CSci courses; (3) includes no more than 9 credits of CSci 4970 or 59xx courses. 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
Students satisfy the major project requirement by taking CSci 4081.

Computer Science Minor

The minor consists of at least five 3- or 4-credit approved computer science courses of which three must be taken at the University with the CSci designator. At least one course must be 5xxx. All courses must be taken A-F and only courses completed with a grade of C- or better count toward the minor. Cumulative GPA for all University CSci courses must be at least 2.00; this includes CSci courses that are not used for the minor. Only computer science courses listed for the major are acceptable.

Cultural Studies and Comparative Literature

Department of Cultural Studies and Comparative Literature

B.A.
Courses in the Department of Cultural Studies and Comparative Literature (CSCL) pursue questions and ways of knowing that cross traditional disciplinary boundaries. Students study culture as a set of complex connections and interrelations: between texts and everyday life, ideas, and the material world, discourse and power. Students may choose between two tracks, each of which explores these overarching concerns with a specific emphasis:

The comparative literature track engages primarily verbal texts, “literature” in its broadest sense (novels, plays, poetry, prose, and expository writing of various kinds, such as philosophy and scientific discourse) and in a historical and global context.

The cultural studies track investigates practices in all available media, including the visual-spatial (painting, sculpture, architecture, the built environment, the soundscape) and combinations (film, TV, multimedia events, festivals, riots).

Note: The department also offers a major in studies in cinema and media culture. See page 194.

Degree Requirements

Students must complete at least 32 credits in the major. Students select either the comparative literature or cultural studies track and complete a minimum of ten courses for the major: two introductory (1xxx) courses plus seven at upper division levels. To allow for flexibility, the tenth course may be taken at any level. Requirements for the separate tracks are described below.

Required Courses

Cultural Studies Track
CSCL 1001—Introduction to Cultural Studies: Rhetoric, Power, Desire
or CSCL 1301—Reading Culture: Theory and Practice
and CSCL 1201—Introduction to Visual Cultures
or CSCL 1501—Reading History: Theory and Practice
or CSCL 1921—Introduction to Film Study

Five 3xxx courses, including a minimum of one each from the following:
Four subdivisions: discursive practices and genres, subjectivity and history, ideologies and disciplines, critical theories and methods
Two 4xxx or 5xxx courses, including CSCL 4990—Senior Seminar and Workshop

One additional CSCL course

Comparative Literature Track
CSCL 1101—Introduction to Literary Cultures
or CSCL 1401—Reading Literature: Theory and Practice
and CSCL 1201—Introduction to Visual Cultures
or CSCL 1501—Reading History: Theory and Practice
or CSCL 1921—Introduction to Film Study

Five 3xxx courses, including a minimum of one each from the following:
Four subdivisions: discursive practices and genres, subjectivity and history, ideologies and disciplines, critical theories and methods
Two 4xxx or 5xxx courses, including CSCL 4990—Senior Seminar and Workshop

One additional CSCL course
Note: CSCL, CSDS, CLit topics courses and independent/directed study courses may be used to meet stated 3xxx-5xxx requirements with adviser approval. Grades in the major must be C- or better.

**Electives**—Courses from other units may be substituted (on an ad hoc basis) for department major courses if approved by the student’s adviser or the director of undergraduate studies.

**Final Project**
The senior project requirement may be satisfied by completing CSCL 4990 or through a directed study with a faculty adviser or by special registration in any 3xxx or 5xxx course.

**Cultural Studies and Comparative Literature Minor**
Students take one 1xxx course plus 14 additional credits at 3xxx, 4xxx, or 5xxx.

*Note:* A maximum of two 3xxx/5xxx classes may be topics courses and/or independent/directed study courses. All grades in CSCL must be C- or better.

**Dance**

*Department of Theatre Arts and Dance*

**B.A.**
The B.A. in dance emphasizes general dance studies. This degree prepares the student for further studies in such areas of dance as performance, choreography, dance history, criticism, ethnology, pedagogy, movement analysis, and kinesiology.

**Admission Requirements**—All entering dance students must first be accepted into CLA. Acceptance into the B.A. program is by audition only.

**Degree Requirements**
Students complete at least 45 credits in the major. The 45 credits can be earned in the major areas of professional technical training, creative process, performance experience, dance history and studies, and career knowledge of the field. This requirement includes 12 credits of dance electives. Major coursework must be taken A-F, except Dnce 4901—Senior Seminar which is S-N only.

**Required Courses**
Dnce 1601—Dance Improvisation (3 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 3110—Ballet Technique 5 (2 cr)
Dnce 3120—Ballet Technique 6 (2 cr)
Dnce 3210—Jazz Technique 5 (1 cr)
Dnce 3220—Jazz Technique 6 (1 cr)
Dnce 3401—Dance History 1 (3 cr)
Dnce 3402—Dance History 2 (3 cr)
Dnce 3433—Articulate Body (3 cr)
Dnce 3601—Dance Composition 1 (3 cr)
Dnce 3602—Dance Composition 2 (3 cr)
Dnce 3621—Dance Production 1 (3 cr)
Dnce 3622—Dance Production 2 (3 cr)
Dnce 3700 or 5700—Performance (2 cr each; 8 cr required)
Dnce 4443—Philosophy and Aesthetics (3 cr)
Dnce 4601—Dance Composition 3 (3 cr)
Dnce 4602—Dance Composition 4 (3 cr)
Dnce 4901—Senior Seminar (2 cr)
Dnce 5010—Modern Dance Technique 7 (3 cr)
Dnce 5020—Modern Dance Technique 8 (3 cr)
Dnce 5601—Dance Composition 5 (3 cr)
Dnce 5858—Teaching Dance (4 cr)
Electives (12 cr total, no more than 3 cr in technique)

**B.F.A.**
The B.F.A. in dance emphasizes technical, compositional, and performance training in modern dance. The program seeks to prepare the gifted student for a performance or creative career.

**Admission Requirements**—All entering dance students must first be accepted into CLA. Acceptance into the B.F.A. program is by audition only.

**Degree Requirements**
Students must complete at least 120 credits to graduate, including at least 78 credits in the major. Major credits must be earned in areas of professional technical training, creative process, performance experience, dance history and studies, and career knowledge of the field. This requirement includes 18 credits of dance-related electives. Major coursework must be taken A-F, except Dnce 4901—Senior Seminar which is S-N only.

**Required Courses**
Dnce 1601—Dance Improvisation (3 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 3110—Ballet Technique 5 (2 cr)
Dnce 3120—Ballet Technique 6 (2 cr)
Dnce 3210—Jazz Technique 5 (1 cr)
Dnce 3220—Jazz Technique 6 (1 cr)
Dnce 3401—Dance History 1 (3 cr)
Dnce 3402—Dance History 2 (3 cr)
Dnce 3433—Articulate Body (3 cr)
Dnce 3601—Dance Composition 1 (3 cr)
Dnce 3602—Dance Composition 2 (3 cr)
Dnce 3621—Dance Production 1 (3 cr)
Dnce 3622—Dance Production 2 (3 cr)
Dnce 3700 or 5700—Performance (2 cr each; 8 cr required)
Dnce 4443—Philosophy and Aesthetics (3 cr)
Dnce 4601—Dance Composition 3 (3 cr)
Dnce 4602—Dance Composition 4 (3 cr)
Dnce 4901—Senior Seminar (2 cr)
Dnce 5010—Modern Dance Technique 7 (3 cr)
Dnce 5020—Modern Dance Technique 8 (3 cr)
Dnce 5601—Dance Composition 5 (3 cr)
Dnce 5858—Teaching Dance (4 cr)
Electives (12 cr total, no more than 3 cr in technique)
Electives—The dance-related academic elective requirement may be fulfilled by courses in such areas as music, theatre, art history, kinesiology, cultural studies, speech communications, and women’s studies, as agreed upon between students and their dance advisers.

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. The minor program must be approved by the Dutch adviser.

Requirements
A passing score on the graduation proficiency test in Dutch is a prerequisite for this minor. Students take Dutch 3011—Conversation and Composition and Dutch 3012—Conversation and Composition; 6 credits, selected in consultation with the adviser, from Dutch 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.

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. 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 one upper division course 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 (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 (3 courses) at the University of Minnesota, Twin Cities.

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—One course 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
ApEcon 4821 or selected 5xxx ApEcon courses

Final Project
Students have four options for completing the senior project:
• A or B grade in an instructor-supervised research seminar (2 credits): 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 to be approved by the senior project instructor.
• Acceptable honors (up to 6 credits) projects or theses.

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 one upper division course 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.

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.
Economics Minors
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

General Economics Minor
- Math 1142—Short Calculus or Math 1271—Calculus I (or equiv)
- Econ 3101—Intermediate Microeconomics
- Econ 3102—Intermediate Macroeconomics

Econometrics Minor
- Econ 3101—Calculus I (or equiv)
- Math 2243—Linear Algebra and Differential Equations
- Econ 3102—Intermediate Microeconomics
- Econ 3103—Intermediate Macroeconomics

Econometrics Minor
- Math 1271—Calculus I (or equiv)
- Math 2243—Linear Algebra and Differential Equations (or equiv)
- Econ 3101—Intermediate Microeconomics
- Econ 3102—Intermediate Macroeconomics

Applied Microeconomics Minor
- Math 1271—Calculus I (or equiv)
- Econ 3101—Intermediate Microeconomics (or equiv)
- Econ 3501—Labor Economics
- Econ 3601—Industrial Organization and Antitrust Policy
- Econ 3801—Major Project Seminar

Based on a survey taken every 10 years, the economics program ranked #10 nationwide in the National Research Council’s 1995 report.
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—Macroe Policy
or Econ 4741—Business Cycles

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 (EngL and 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 1001-1701, and EngW 1101-1104. To declare a major, a student schedules an appointment with the Undergraduate Studies Office (225 Lind Hall; 612-625-4592; englmaj@umn.edu), and completes a Major Program form which is filed in CLA, the department, and with the student.
Degree Requirements
Students must complete at least 120 credits to graduate, including at least 35 credits in the major (32 credits from 3xxx or higher courses). Credits are distributed among textual interpretation, historical surveys of literature, Shakespeare, English language or theory, elective courses, a seminar or writing workshop, and a senior paper. All English major courses must be taken A-F and completed with grades of C- or better.
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 course (department approved)
One of the following literary theory or English language courses: EngL 3002, 3001, 3002, 3003, 3005, 3006, 3611, 3612, 3613, 3621, 3632, 3633, 3641; EngC 3650 (topics in rhetoric/writing/language)
Electives
Three courses (minimum 9 cr), to include at least two 3xxx courses (6 cr) and one 1xxx or 3xxx course (3-4 cr).
Final Project
Each student produces a senior paper in EngL or EngW 3906W (4 cr), subject to department guidelines and faculty written approval. Honors summa cum laude degree candidates must also register for EngL 3883—Honors Thesis (3 cr).

English Minor
Students take EngL 3001—Textual Interpretation, EngL 3007—Shakespeare, two historical survey courses, and one 3xxx elective for a minimum of 18 credits.

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.

Film Studies
See Studies in Cinema and Media Culture.

Foreign Studies
Minor Only
The foreign studies minor helps students integrate their study abroad with supporting University coursework from a variety of disciplines. Since some 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@umn.edu, Web <www.UMabroad.umn.edu>.
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.
Comm 3451—Intercultural Communication: Theory and Practice (before departure)
Comm 3452—Communication and the Intercultural Reentry (after return)
Six credits of 3xxx, 4xxx, or 5xxx courses focusing on the country or region of study.
Two years (four semesters) in a second 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 use any language and/or, with Global Campus adviser approval, may substitute additional country-specific coursework for part or all of the language requirement.

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,
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 French 1001-1002—Beginning French and 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, excluding FrIt 5999, 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, linguistics, 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 is an academic and practical field that studies the manner in which human-made places and natural systems interact and change. Geographers study these interactions at all scales: neighborhoods and cities; regions and nations; single or multiple biophysical systems, and even the world as a whole. Geography attempts to explain not only these interactions and changes, but in many instances how they are perceived and what meanings they hold. Depending on their specific interests, geographers will employ one or more of a variety of methods and techniques: fieldwork, mapping, conventional narrative, ethnography, spatial statistics and modeling, and textual analysis. Many geographers are also interested in the intersections of science, technology, and information, such as the impact of GIS on decision making. Geography’s integrative perspective on regional and global change provides students with unparalleled understanding of today’s complex world.

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 science.

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 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 to think critically about different ways of life and livelihood strategies, as well as different conceptions and practices of development in different geographic contexts. They also learn about the connectedness of societal and environmental processes from the local scale to the global.

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 science 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. The track is also concerned with the relationship between geographic information science, systems, and society.

**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.

**Required Courses**

- Core courses: Geog 1301—Introduction to Human Geography or Geog 3001—Geographic Inquiry and Human Development
- and two of the following: Geog 3371W/3371V—Introduction to Urban Geography, Geog 3401W/3401V—Geography of Environmental Systems, Geog 3561—Principles of Geographic Information Science
- Geog 4001—Modes of Geographic Inquiry or Geog 4002W—Social Theory and the Environment

**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.

**Geography Minor**

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

**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

**Geology Minor**

Students take Geo 1001—The Dynamic Earth: An Introduction to Geology or equivalent and 14 credits of geology or geophysics taken at 2xxx 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. The major in German Studies and minors in German and in Dutch studies 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 a German minor. The University is affiliated with exchange programs in Berlin and Freiburg for both one- and two-semester 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—such as art history, history, political science, philosophy, or international relations—if the course examines German-speaking areas. 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 3011-3012—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 (subject to the approval of the director of undergraduate studies).
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.

German Minor
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; CSCI 1001, CSCI 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—Theoretical Approaches to Global Studies (4 cr)
GloS 3144—Knowledge and Power in Global Studies (4 cr)

Ways of Knowing requirement—3-4 credits
Students complete a breadth 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. Within each thematic concentration students choose appropriate courses in consultation with a global studies adviser.

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 may count towards the thematic or regional concentrations where appropriate.

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

Global Studies Minor
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)

Final 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.
Greek Minor
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 take Hebr 3012 or equivalent.

Required Courses
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
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.

Final 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.

Hebrew Minor
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), methods (economic, social, quantitative), and comparative themes (colonialism, economic development, sexuality). Interdisciplinary programs incorporate history into a variety of other programs (history of medicine, global studies, medieval studies, women’s studies).

Degree Requirements
There are no prerequisites for the undergraduate major. Students take three survey courses (one of which must be writing intensive); six courses at or above 3xxx or 4xxx, including three in an area of concentration; and a senior paper course. Students must take history courses A-F and receive at least a C- in the ten courses, majors must fulfill three distribution requirements:

1. Chronological—At least two courses from the pre-modern 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 1011W, 1012W, 1015W, 1017, 1018, 1019.
3. Area of concentration—At least three courses, 3xxx or higher, representing either a geographical area, a chronological period, a unifying theme, method, or subject, or a combination of these three areas.

An honors major with special courses is offered.
Required Courses

Students must take three of the following survey courses:
- Hist 1011, 1012, 1015, 1017, 1018, 1019 (World history)
- Hist 1026, 1027, 1031, 1032 (European civilization)
- Hist 1301, 1302, 1307, 1308 (U.S. history)
- Hist 3051, 3052, 3053 (Ancient history)
- Hist 3101, 3151, 3152, 3401, 3402, 3431, 3432, 3461, 3462, 3485, 3505, 3541, 3542, 3543 (Regional surveys)

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 3961/4961—Major Paper).

History Minor

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 HSci courses; at least 3 of these credits must be at or above 4xxx. 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 (Hum 1001-1006 or Hum 3001-3006); 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 1xxx. 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 at least 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.
Individually Designed Interdepartmental Major

B.A.
The IDIM 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. IDIM 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 IDIM adviser, students develop program proposals that explain their academic goals and list a set of courses appropriate for meeting those goals. IDIM 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 IDIM adviser for specific information on proposal approval procedures and department guidelines.

Degree Requirements
Students must complete at least 120 credits to graduate, including at least 50 credits in the major. The 50 credits must be distributed among three or four concentration areas, with at least 11 credits at 3xxx or above in each area. The concentrations may be departmental or thematic in composition. At least 40 of the 50 credits must be 3xxx or above.

At least 20 credits in the major must be completed after the program has been approved. No more than 12 credits of directed studies may be applied toward the major. The CLA requirement of 18 credits at or above 3xxx outside the major does not apply.

Final Project
Students must complete an integrating senior project, earning at least 2 credits in conjunction with the project. Project proposals must be approved by faculty and staff advisers the semester before the project is begun. Projects may vary widely in form, depending on a student’s major. The project proposal and the project itself must be reviewed and approved by one faculty adviser and two faculty readers.

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, courses cannot be 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.

Italian Studies Minor

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, courses cannot be taught in English)

Japanese

See Asian Languages and Literature.

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, 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 of 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 3021-3022—Readings in Biblical Hebrew I-II may be substituted for Hebr 3011-3012.

Final 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.

Jewish Studies Minor
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 3xxx or above 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.

Journalism and Mass Communication

School of Journalism and Mass Communication

B.A.
The school offers a B.A. major program in journalism with two professional tracks: journalism and strategic communication, and it also offers a mass communication track.

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

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 and a grade of C- or better in Jour 1001. 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 36 credits (professional journalism track and mass communication track) or 37 credits (professional strategic communication track), but no more than 40 credits in the major. All major courses must be completed with grades of C- or better.

About two-thirds 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 80 non-journalism credits, including 65 CLA credits.
Journalism courses are categorized in the following way. Professional (skills) courses: 3101, 3102, 3121, 3155, 3173, 3201, 3202, 3241, 3251, 3279, 3451, 4131, 4155, 4171, 4174, 4259, 4261, 4263, 4302, 4441, 4442.
Context courses: 3006, 3007, 3008, 3551, 3614, 3741, 3745, 3771, 3776, 3796, 4272, 4274, 4551, 4552, 4615, 4721, 4731, 4801, 5251, 5316, 5501, 5725, 5541, 5601, 5606, 5771, 5777, 5825.
Required Courses
Core courses: Jour 3004, 3101, 3102, and a capstone course (4131 or 4155 or 4171 or 4174 or 4441 or 4442 or 4990)
Professional courses: 9 credits, including 3 credits at 4xxx, chosen in consultation with a faculty adviser from the following list: Jour 3121, 3155, 3173, 3231, 3451, 4131, 4171, 4174, 4302, 4441, 4442, 3990/4990/5990 (specialized professional journalism courses, including Chamley course), or professional courses from the strategic communication track (prerequisites must be met).
Context courses: 12 credits, including 3 credits at 4xxx or 5xxx, chosen in consultation with a faculty adviser. Directed study and specialized topics courses may be used to meet this requirement.
Supporting courses: 12 credits at 3xxx, 4xxx, or 5xxx from other departments chosen in consultation with a faculty adviser.
Final Project
Journalism majors must complete a major project before graduation. For the mass communication track, this requirement is satisfied by completing two 4xxx or 5xxx context courses.

Professional Journalism Track
The professional track prepares students for careers in areas such as news reporting, editing, and producing. This track is based on a liberal arts foundation, knowledge of the social context in which the professions are practiced, and the skills and experiences needed to succeed in the marketplace.

Required Courses
Core courses: Jour 3004, 3101, 3102, 3251, 4259, 4263.
Proffessional courses: 6 credits chosen in consultation with a faculty adviser from the following list: Jour 3241, 3279, 3321, 4261, or 3990/4990/5990 (specialized strategic communication courses), or professional courses from the journalism track (prerequisites must be met).
Context courses: 12 credits, including 3 credits at 3xxx, 4xxx, or 5xxx, chosen in consultation with a faculty adviser. Directed study and specialized topics courses may be used to meet this requirement.
Supporting courses: 12 credits at 3xxx, 4xxx, or 5xxx from other departments chosen in consultation with a faculty adviser.

Professional Strategic Communication Track
The professional strategic communication track prepares students for careers in advertising and public relations. This track is based on a liberal arts foundation, knowledge of the social context in which the professions are practiced, and the skills and experiences needed to succeed in the marketplace.

Required Courses
Core courses: Jour 3004, 3101, 3102, and a capstone course (4131 or 4155 or 4171 or 4174 or 4441 or 4442 or 4990)
Professional courses: 9 credits, including 3 credits at 4xxx, chosen in consultation with a faculty adviser from the following list: Jour 3121, 3155, 3173, 3231, 3451, 4131, 4171, 4174, 4302, 4441, 4442, 3990/4990/5990 (specialized professional journalism courses, including Chamley course), or professional courses from the strategic communication track (prerequisites must be met).
Context courses: 12 credits, including 3 credits at 4xxx or 5xxx, chosen in consultation with a faculty adviser. Directed study and specialized topics courses may be used to meet this requirement.
Supporting courses: 12 credits at 3xxx, 4xxx, or 5xxx from other departments chosen in consultation with a faculty adviser.

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

Journalism and Mass Communication Minor
Students must complete 18 credits in the minor including, Jour 1001—Introduction to Mass Communication Jour 3004—Information for Mass Communication Jour 3101—News Reporting and Writing or Jour 3201—Principles of Strategic Communication: Advertising or Jour 3202—Principles of Strategic Communication: Public Relations, and three context courses, one of which must be 4xxx or 5xxx. Students must have a 2.80 overall GPA and a grade of at least C- in Jour 1001 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 medieval 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
Lat 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 Lat 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.

Latin Minor
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
Lat 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 or above, 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.

Linguistics

Institute of Linguistics, ESL, 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 languages are acquired by children and adults, the role of language in human cognition and social interaction, and how languages 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.

Up to two related courses in other academic programs 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—Introduction to Linguistics
Ling 3301 or 5301—Introduction to Phonetics
Ling 3001 or 5001—Introduction to Historical Linguistics
Ling 4901—Senior Project

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.

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.

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.

Linguistics Minor
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 the actuarial science, secondary school teaching, and computer science specializations 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, secondary teaching, or computer science 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 1271-1272-2243-2263 (Calculus I-II, Linear Algebra and Differential Equations, Multivariable Calculus)

Math 1371-1372-2373-2374 (IT Calculus I-II, IT Linear Algebra and Differential Equations, IT Multivariable Calculus)

Math 1571-1572-2573-2574 (Honors Calculus I-II-III-IV)

Students who have not taken all four semesters of Honors Calculus must also take Math 2263 or Math 3283W. Math 3283W 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, 5285, 5286, 5385, 5705, 5707, 5711 (only one of 5705 or 5707 may be used to satisfy this requirement).

To satisfy the analysis requirement, a student must take two courses from the following: Math 4606, 5486, 5525, 5535, 5583, 5587, 5588, 5615, 5616, 5651, 5652, 5654.

The School of Mathematics will accept Stat 5101 and Stat 5610—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.

Note: Math 4512—Differential Equations with Applications and Math 3113, 3118, 4113, 4118—Topics in Elementary Mathematics cannot be used as part of the six-course upper division math requirement.

Final Project

All CLA math majors must complete a senior project, Math 4995 or 4997W. Consult your math adviser about this project before the beginning of your senior year.

Mathematics Minor

Students complete all lower division requirements in the major, plus any two adviser-approved upper division courses in the major (including Stat 5101-5102).

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 3xxx, 4xxx, or 5xxx 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 (CBS) 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 as well as other, related biological fields.

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 courses 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 4984
Math 1271-1272—Calculus I–II
Chem 1021-1022—Chemical Principles I–II
Chem 2301-2302—Organic Chemistry I–II
Chem 2311—Organic Lab
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 Career and Community Learning Center (CCLC).

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 612-624-8001, 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 within a broad liberal arts degree program.

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 (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
Mus 5501—Intensive Theory and Analysis of 20th-Century Music
One elective theory course from an approved list (3 cr)

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
Mus 3601, 3602, 3603—History of Western Music I–III

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

Required Courses (35 cr)
Mus 1260—Voice Class
or MusA 1404—Secondary Voice
MuEd 1201—Introduction to Music Education
MuEd 3302—Teaching Secondary General Music
MuEd 3502—String Techniques and Teaching
MuEd 3503—Woodwind Techniques and Teaching
MuEd 3504—Brass Techniques and Teaching

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)
A list of approved ensembles (1 credit each) is available from the School of Music.

Music Research (3 cr)
Mus 5611—Resources for Music Research
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 and professional education courses.

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
One elective theory course (3 cr) from an approved list

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

Professional Education (12 cr)
EdHD 5001—Learning, Cognition, and Assessment in the Schools
EdHD 5003—Developing Individual Differences in Educational Contexts
EdHD 5005—School and Society
EdHD 5009—Human Relations: Applied Skills for School and Society
PubH 5003—Fundamentals of Alcohol and Drug Abuse

In addition to the above coursework, students must choose and complete the coursework for one of the following concentrations.

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

Required Courses (35 cr)
Mus 1260—Voice Class
or MusA 1404—Secondary Voice
MuEd 1201—Introduction to Music Education
MuEd 3302—Teaching Secondary General Music
MuEd 3502—String Techniques and Teaching
MuEd 3503—Woodwind Techniques and Teaching
MuEd 3504—Brass Techniques and Teaching
Degree Programs

College of Liberal Arts

MuEd 3505—Percussion Techniques and Teaching
MuEd 3516—Instrumental Music Methods and Conducting I
MuEd 3350—Student Teaching in Classroom Music (4 cr)
MuEd 3517—Beginning Instrumental Methods and Materials
MuEd 3518—Instrumental Music Methods and Conducting II
MuEd 3550—Student Teaching in Instrumental Music (6 cr)
MuEd 3650—Student Teaching Seminar (2 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 Mus 3410—University Wind Bands 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 (24 cr)
MuEd 1201—Introduction to Music Education
MuEd 3301—Teaching Elementary Vocal and 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
MuEd 3650—Student Teaching Seminar

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.

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

B.M. in Music Performance
The B.M. in music performance is a professional degree in which music courses comprise approximately 75 percent of the program.

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 5501—Intensive Theory and Analysis of 20th Century Music

One elective theory course (3 cr) from an approved list

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
Mus 1155—Keyboard Skills I
Mus 1152—Piano: Class Lessons II
Mus 1156—Keyboard Skills II

Conducting (2 cr)
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 xxxx 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
Junior and senior recitals are required for all programs in the Performance B.M. (Mus 0901—Junior Recital, Mus 0951—Senior Recital).

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 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
One elective theory course (3 cr) from an approved list

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 (45 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).

Music Minor
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 13xx (major instrument or voice)
Ensembles (2 cr)
Mus 3230—Chorus
or Mus 3410—University Wind Bands
or Mus 3420—Orchestra

New Media Studies

Interdisciplinary

Minor Only
This interdisciplinary minor explores from multiple perspectives how information or content is created and shaped in new and emerging media, as well as the role and impact of those media on human communication. New media refers to the emerging digital technologies that enable information to be produced, stored, transmitted, and displayed in various ways. This minor includes courses from the Colleges of Liberal Arts, Human Ecology, and Agricultural, Food and Environmental Sciences.

Requirements
Students complete at least 15 credits distributed as follows:
Two to three courses (minimum 6 credits) selected from the following: Jour 3551, Jour 3552, Jour 4551, Jour 4552
Two to three courses (minimum 6 credits) from approved list of elective courses.
Consult the School of Journalism for list of approved elective courses.
All courses must be taken A-F and only courses completed with a grade of C- or better count toward the minor. A maximum of eight credits of elective courses may be earned from a single department.

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 1xxx. At least three courses must be at 4xxx 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)
or Phil 3601—Scientific Thought (4 cr)

One ethical theory course
Phil 3311—Introduction to Ethical Theory (4 cr)
or Phil 4310—History of Moral Theories (3 cr)
or Phil 4230—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.

Philosophy Minor
Students must complete at least 14 credits in philosophy courses at 3xxx 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 37 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, 2503 or Phys 1401, 1402, 2403
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.

Physics Minor
The minor in physics requires 22 credits in physics and 12 credits in math, distributed as follows:
Math 1271, 1272, 2243 or Math 1371, 1372, 2373
Phys 1301, 1302, 2503 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.
The physiology major concentrates on understanding the functions of the human body from individual cells to organ systems. The program is based upon principles from a variety of physical and biological sciences.

This major is particularly appropriate for students who intend to enter medical school or graduate study in any of a variety of biological, health, or biomedical sciences. The required courses form a strong core in biomedical science. Many of the required courses are identical to those required for admission to medical school. Students may tailor the overall degree program to specific needs and may choose additional science courses in preparation for medical school or graduate school. Students may also take advantage of the freedom to pursue a more diverse undergraduate experience in CLA. 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 principles of human physiology for majors, organic chemistry with laboratory, biochemistry, genetics, and cell biology. In addition, two upper division 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
Bio 4003—Genetics
Bio 4004—Cell Biology
Chem 2301—Organic Chemistry I
Chem 2302—Organic Chemistry II
Chem 2311—Organic 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 three 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, 3233, 3739, 3873, 4210, 4275, 4303, 4322, 4502, 4766, 4483, 4485, 4487, 4885, 5251, 5252, 5253

**Global politics:** Pol 3110, 3225, 3441, 3451, 3477, 3835, 3872, 3873, 4461, 4467, 4471, 4473, 4477, 4478, 4479, 4485, 4832, 4833, 4836, 4881, 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, 4473, 4477, 4478, 4479, 4487, 4561, 4766, 4885, 4889, 5253

**Political psychology, beliefs, and behavior:** Pol 3085, 3110, 3225, 3323, 3676, 4275, 4306, 4308, 4331, 4483, 4485, 4766, 4836, 4887, 5253

**Public affairs:** Pol 3085, 3110, 3225, 3321, 3406, 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.

**Political Science Minor**

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 1xxx 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 Department of Neuroscience, and affiliated research units within the department, such as the Center for Cognitive Sciences, the Center for Interest Measurement 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.

Students completing the degree program in psychology may not receive a second degree in child psychology.

Psychology B.A. degree candidates may not use course credits from child psychology or educational psychology to count toward the required 18 3xxx, 4xxx, and 5xxx credits outside the major department.

Preparatory Coursework—Psy 1001—Introduction to Psychology

Degree Requirements

Students must complete at least 120 credits to graduate, including at least 36 credits in the major, 32 of which must be at the upper division level.

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

Two courses from Group A—cognitive and biological area: Psy 3011, 3031, 3051, 3061 or 5061, 4011, 4036, 5012W, 5013, 5014, 5015, 5031W, 5034, 5039W, 5037, 5038W, 5051W, 5054, 5062, 5064.

Two courses from Group B—clinical, personality and social areas: Psy 3101 or 5101, 3201, 3301, 3604 or 5604H, 3617, 3666, 5020, 5204, 5205, 5206, 5207, 5606. Child psychology courses CPsy 3301, CPsy 4303 may also be used to fulfill this area for the major.

One course from Group C—individual differences, quantitative and applied areas: Psy 3135 or 5135, 3137 and 5137, 3711, 4133, 4501, 4801, 5121, 5136, 5137, 5138, 5501, 5701, 5702, 5703, 5705, 5862, 5865.

Electives from 3xxx, 4xxx, or 5xxx psychology courses to satisfy the total minimum credit requirement (36 credits). A total of two courses from Psy 3960/9560, 3993/4993, 3994 and 3996/4996H may be used.

Psy 3902W—Major Project in Psychology

Psychology Minor

Undergraduate minors in psychology are offered in three tracks: general psychology, natural/biological science, and social science. All three tracks require completion of Phys 1001 and Psy 3005W 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 and 5137, 3604 or 5604H, 3666, 5136, 5137, 5206, 5606.

Social Science Track

Three courses from Group B and one course from: Psy 3135 or 5135, 3711, 4133, 4501, 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.

Religious Studies Minor
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, ESL, and Slavic Languages and Literatures

B.A.
The Slavic and Central Asian Languages and Literatures unit offers study of the Russian, Polish, and Iranian 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 I and II, Russ 3001-3002—Intermediate Russian I and II 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—Advanced Russian I and II
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

Russian Minor
Preparatory courses: Russ 1101, 1102
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:

Hist 3635—Anarchism to the Restoration: The History of European Russia, ca. 700 to ca. 1700
or Hist 3636—Conquest, Colonization, and Centralization: The History of European Russia, ca. 1700 to ca. 1870
or Hist 3637—Modern Russia: From Peter the Great to the Present
or Russ 3421—Literature: Middle Ages to Dostoevsky in Translation
or Russ 3422—Literature: Tolstoy to the Present in Translation

Students must complete at least two courses in humanities. The minor must be approved by the area studies adviser.

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
Dan, Nor, or Swed 3011 and Scan 3012
or Dan 3011 and Fin 3012
GSD 3451—Major Project Seminar
or GSD 3452 Honors Major Project Seminar
Three courses selected from the following:
Scan 3001—Scandinavian Culture Past and Present
Scan 3002—Scandinavian Myths
Scan 3003—Scandinavian Folklore
Scan 3004—The Immigrant Experience
Scan 3601—Great Literary Works of Scandinavia
3 additional 3xxx, 4xxx, or 5xxx 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.

Final Project
All majors must complete GSD 3451—Major Project in German and Scandinavian.
Scandinavian Languages and Finnish Minor
Students pursuing a minor must complete at least 14 credits. Students must complete 3011 in one of the following four languages: Danish, Finnish, Norwegian, or Swedish, and Scan 3012 or Fin 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 African and 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 must complete or be enrolled in an introductory sociology course (Soc 1001 or 1011 or the equivalent from a transfer college) before officially declaring the major.

Required Courses
Prerequisite to most 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 at least 3 credits (one course) at the 4xxx level.

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

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.
Students may also satisfy this requirement by completing a directed study (4 cr) with a faculty member. Department approval required to enroll in any senior project option.
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. Some sociology courses may provide a community service learning opportunity.

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 must complete or be enrolled in 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. B.S. majors are 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.

Degree Requirements
The B.S. option extends and builds on course requirements for the B.A. program by including a supportive program of four upper division courses focusing on technical and quantitative aspects of social research.
The supportive field courses consist of four additional courses (12-16 cr) at 3xxx, 4xxx, or 5xxx, from departments of computer science, economics, mathematics, philosophy, psychology, educational psychology, and statistics. Consult the sociology undergraduate adviser for more information about what courses are appropriate for the sociology B.S. supportive field program.

Required Courses
See Required Courses in Sociology B.A.

Final Project
See Final Project in Sociology B.A.

Sociology Minor
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)
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.

Spanish Studies

Department of Spanish and Portuguese Studies

The program develops analytical skills and methodologies needed to explore Hispanic, Hispanic-American, and Luso-Brazilian languages and cultures. The department offers two majors (Spanish studies and combined Spanish-Portuguese studies) and two minors (Spanish studies and Portuguese studies).

It is important to note that department majors and minors are not simply Spanish and Portuguese language majors or minors, rather, they are liberal arts majors and minors concentrating on Spanish, Latin American and/or Luso-Brazilian literary, cultural, and linguistic studies with language skills at the foundation. All major and minor options in this department begin with prerequisite language courses, followed by advanced language skills courses (special arrangements may be made for native speakers of Spanish). These are followed by critical analysis skills courses in Hispanic literature, culture, and linguistics that prepare students to take advanced coursework in specific areas. The major options culminate in the completion of an individual major research project through the Graduation Seminar. All major and minor courses must be taken A-F and completed with grades of C- or better. Spanish and Portuguese courses taught in English and credits earned in community tutorial programs are not acceptable for major or minor credit. Program plans are carefully structured through courses that must be taken in sequential order—contact the department adviser for more detailed information. Any deviation from course prerequisites (e.g., substitution of language courses for native speakers of Spanish or Portuguese) must be approved in advance by the director of undergraduate studies through the department advising office, 5C Folwell Hall.

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. Students must complete at least 9 credits (3 courses) of advanced upper division elective coursework from the Department of Spanish and Portuguese Studies.

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.)
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 residence community, Casa de Español, is dedicated to speaking Spanish.

Final Project
All B.A. candidates must complete a major project in Spanish by registering in and attending Span 3972—Graduation Seminar. Graduation seminar informational/preparatory sessions are available in the department several times a year. Clearance for seminar registration must be obtained from the department adviser. Students pursuing a second CLA major may choose to complete the major project requirement in the other major. These students are required to substitute Span 3972 with 3 credits in advanced electives in the Spanish or Spanish and Portuguese major.

Spanish Studies Minor
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.

Required Courses
Span 3015—Spanish Composition and Communication
Span 3021—Advanced Communication Skills
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. Students must complete at least 9 credits (3 courses) of advanced upper division elective coursework from the Department of Spanish and Portuguese Studies. 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 it 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
Span 3015—Spanish Composition and Communication
Span 3021—Advanced Communication Skills
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
12-15 additional elective credits in approved 3xxx or 5xxx literature, culture, and linguistics courses, chosen in consultation with the department adviser. (Minimum six credits each in Spanish and Portuguese. At least 9 credits must be in courses with a 31xx prerequisite.)

Port 3972—Graduation Seminar (see Final Project information)

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 residence community, Casa de Español, is dedicated to speaking Spanish.

Final Project
All B.A. candidates must complete a major project in Spanish or Portuguese by registering in and attending Span 3972—Graduation Seminar. Graduation seminar informational/preparatory sessions are available in the department several times a year. Clearance for seminar registration must be obtained from the department adviser.

Portuguese Studies Minor
Students must declare the Portuguese studies 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—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:*

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDIs 1301</td>
<td>The Physics and Biology of Spoken Language</td>
</tr>
<tr>
<td>CDIs 1401</td>
<td>Introduction to Communication Disorders</td>
</tr>
<tr>
<td>CDIs 3301</td>
<td>Introduction to Acoustics</td>
</tr>
<tr>
<td>CDIs 3302</td>
<td>Anatomy and Physiology of the Speech and Hearing Mechanisms</td>
</tr>
<tr>
<td>CDIs 3303</td>
<td>Language Acquisition and Science</td>
</tr>
<tr>
<td>CDIs 3304</td>
<td>Phonetics</td>
</tr>
<tr>
<td>CDIs 3305</td>
<td>Speech Science</td>
</tr>
<tr>
<td>CDIs 3306</td>
<td>Hearing Science</td>
</tr>
<tr>
<td>CDIs 3402</td>
<td>Major Project in Speech and Hearing Science</td>
</tr>
<tr>
<td>CDIs 4501</td>
<td>Speech Disorders</td>
</tr>
<tr>
<td>CDIs 4601</td>
<td>Language Disorders</td>
</tr>
<tr>
<td>CDIs 4801</td>
<td>Hearing Measurement and Disorders</td>
</tr>
</tbody>
</table>

**Final Project**

Completion of CDIs 3402—Major Project in Speech and Hearing Science.

**Speech and Hearing Science Minor**

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.

**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**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat 3011</td>
<td>Introduction to Statistical Analysis</td>
</tr>
<tr>
<td>or Stat 3021</td>
<td>Introduction to Probability and Statistics</td>
</tr>
<tr>
<td>Stat 3022</td>
<td>Data Analysis</td>
</tr>
<tr>
<td>Stat 4101-4102</td>
<td>Theory of Statistics I-II</td>
</tr>
<tr>
<td>or Stat 5101-5102</td>
<td>Theory of Statistics I-II</td>
</tr>
<tr>
<td>Stat 4893</td>
<td>Senior Paper</td>
</tr>
</tbody>
</table>

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.

**Statistics Minor**

Students must complete at least 14 credits from 3xxx, 4xxx, and 5xxx School of Statistics courses, including at least two 5xxx courses.

**Studies in Cinema and Media Culture**

**Department of Cultural Studies and Comparative Literature**

**B.A.**

Studies in cinema and media culture (SCMC) approaches the study of cinema by emphasizing its location within the intricate social, historical, and cultural matrix of audiovisual forms and practices. Core courses and electives are offered not only in the Department of Cultural Studies and Comparative Literature (CSCL) but also in a number of other contributing departments. Through the program’s interdisciplinary framework, students explore the sounds and images of cinema as they have changed throughout the 19th and 20th centuries. Print, photography, radio, television, video, and digital media will also be considered crucial to understanding the unique hybridity and expanse of the cinematic medium.

Students

- develop the ability to “read” the production and circulation of meaning in cinema, especially within the institutions of mass culture;
- examine the history of cinema cultures;
- engage the cross-cultural and global dynamics of cinema production and reception; and
- explore the theoretical models that have shaped thinking about the cinema and its relations to other media.

Although the major includes a production component, its principal focus is on cultural contexts, history, and theory.

*Note:* Effective fall 2001 the studies in cinema and media culture major replaced the film studies major. Currently declared film studies majors have the option of either completing their degree in film studies or transferring to the new SCMC major. The director of undergraduate studies can help students transfer programs.

**Degree Requirements**

Students complete 32 credits in approved major courses. Grades in the major must be C- or better.

**Required Courses**

**I. Core courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMCM 1201</td>
<td>Introduction to Cinema and Media Culture</td>
</tr>
<tr>
<td>or ArtH 1921</td>
<td>Introduction to Film Study</td>
</tr>
<tr>
<td>or CSCL 1201</td>
<td>Visual Culture</td>
</tr>
<tr>
<td>or CSCL 1921</td>
<td>Introduction to Film Study</td>
</tr>
<tr>
<td>SMCM 3001</td>
<td>Introduction to Cinema and Media History</td>
</tr>
<tr>
<td>or ArtH 3921</td>
<td>Art of the Film</td>
</tr>
<tr>
<td>SMCM 5001</td>
<td>Critical Debates in Cinema and Media Culture</td>
</tr>
<tr>
<td>or CSCL—Basic Concepts of Cinema</td>
<td></td>
</tr>
</tbody>
</table>

**II. Four additional courses (3xxx, 4xxx, and 5xxx), one from each of the following:**

1) Questions of context: society, history, culture
2) Questions of practice: production and training
3) Questions of difference: national, international and foreign cinemas
4) Questions of analysis: theory, method, critique

**III. Three electives drawn from approved list, one of which may be 1xxx, and one of which (3xxx, 4xxx, 5xxx) may serve as a basis for the senior project.**

**Final Project**

The senior project requirement may be satisfied by completing one course (3xxx, 4xxx, or 5xxx). Senior projects that involve production (short films, video installations, computer games, and the like) are welcome, but emphasis in SCMC falls on research and critical analysis.

*Note:* Students may use topics or other repeatable courses (those whose numbers end in 0; e.g., Comm 5210) for the distribution requirements in section II, with adviser approval.
Studies in Cinema and Media Culture Minor
SCMC 1201 or Arth 1921 or CSCL 1201 or CSCL 1921 plus fourteen additional credits from 3xxx, 4xxx, or 5xxx courses, taken from the list of approved courses in the major.

Note: A maximum of two 3xxx, 4xxx, or 5xxx courses may be topics courses and/or independent or directed study courses.

Theatre Arts
Department of Theatre Arts and Dance

B.A.
This degree 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 43 credits in the major.

This requirement includes 10 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—Fundamentals of Performance
Th 1322—Creating the Performance
Th 1351—Vocal Production and Beginning Movement for Actors
Th 3513—Design and Technical Production I
Th 3515—Design and Technical Production II
Th 3171—History of the Theatre: Ancient Greece through Neo-Classicism
Th 3172—History of the Theatre: Ancient Greece through Neo-Classicism
Th 4177—Survey of Dramatic Literature I
or 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.

Theatre Arts Minor
The theatre arts minor consists of the following courses, for a total of 24 credits:
Th 1101—Fundamentals of Performance
Th 1322—Creating the Performance
Th 3513—Design and Technical Production I
Th 3515—Design and Technical Production II
Any two of the following: Th 3171, 3172, 4177, 4178

B.F.A. in Acting
The B.F.A. in acting is an intensive, individualized, actor training program that utilizes both faculty from theatre and dance as well as the Guthrie Theater’s professional artistic staff to provide selected students with the physical, vocal, emotional, and intellectual skills necessary to succeed as working performance artists. The degree is intended to prepare students for entry into advanced education at a conservatory or for professional employment.

Degree Requirements
Students must complete at least 120 credits to graduate, including 59 credits of specified acting coursework (speech, voice, movement), performance before an audience, and independent study; and 26 credits of general theatre studies. Entry into this degree program is by audition only and students are admitted in fall semester only.

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 two courses focusing on urban form and society, with three additional courses from one of the following broad concentration areas: cultural analysis, and political economy, and infrastructure. Students complete two skills and methods courses.

Students must complete the following courses within the program: an introductory course, two urban studies colloquia, two workshops, an internship, and a senior paper. The program requires two courses focusing on urban form and society, with three additional courses from one of the following broad concentration areas: cultural analysis, and political economy, and infrastructure. Students complete two skills and methods courses. An internship and a senior paper are also required. 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
Two sessions of UrbS 3201 or UrbS 3202 (2 cr total)
Two sessions of UrbS 3500—Urban Studies Workshop (6 cr total)
UrbS 3900—Urban Studies Internship Seminar
UrbS 3955—Senior Paper Seminar

Electives
Two courses of at least 6 credits of skills or methods courses from the list in the Urban Studies Program Booklet (available online).
Courses from appropriate departments are identified; students choose five of these courses in identified tracks (at least 15 cr total). See the Urban Studies Program Booklet (available online) for a complete listing of courses that may be applied.

Final Project
Students must complete UrbS 3955—Senior Paper Seminar.

B.S.

Degree Requirements
See Degree Requirements for the B.A.

Required Courses
The required courses for the Urban Studies B.S. are the same as those for the B.A. except for the number of required elective courses below.

Electives
Four courses totaling at least 12 credits of skills or methods courses identified in the Urban Studies Program Booklet.

Final Project
Students must complete UrbS 3955—Senior Paper Seminar.

Urban Studies Minor
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
Two sessions of UrbS 3201 or UrbS 3202 (2 cr total)
One session of UrbS 3500—Urban Studies Workshop (3 cr total)
Two courses from one of the tracks described in the Urban Studies Program Booklet (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.

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 African American and African Studies; American Studies; American Indian Studies; Chicano Studies; Communication Studies; Comparative Studies in Discourse and Society; English; German, Scandinavian, and Dutch; History; Philosophy; Sociology; and Spanish and Portuguese. 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
Students must complete 27 to 30 credits of required courses plus upper level electives as needed to reach 36 credits.

WoSt 1001—Introduction to Women’s Studies (3-4 cr)
or WoSt 1002—Politics of Sex (4 cr)
One of the following 3-4 credit courses: WoSt 1003, 3001, 3002, 3003, 3004
WoSt 3102—Feminist Thought and Theory (3-4 cr)
or WoSt 4402—History of Western Feminism (3 cr)

One upper level course satisfying the department’s cultural pluralism requirement (minimum 3 cr). WoSt 3001, 3002, 3003, and 3004 may not be used to fulfill this requirement.

One upper level course satisfying the department’s international studies requirement (minimum 3 cr). WoSt 3001, 3002, 3003, or 3004 may not be used to fulfill this requirement.

WoSt 4107—Senior Research Methods (3 cr)

Women’s studies majors must complete two junior-senior seminars or one junior-senior seminar and WoSt 4109—Field Learning (internship) and concurrent registration in WoSt 4993—Directed Study (1 cr) under the supervision of the student’s senior project faculty adviser.

Under special circumstances, a student with a well-defined project that cannot be accommodated within the junior-senior seminars may do one junior-senior seminar and a directed study. Students write a 20-25 page paper for each of their two choices.

Electives—In addition to WoSt courses, this category includes all of the program’s officially cross-listed courses.

Women’s Studies Minor
The women’s studies minor requires 18 credits.

WoSt 1001—Introduction to Women’s Studies (3-4 cr)
or WoSt 1002—Politics of Sex (3-4 cr)

Five upper level courses. No more than one of the following courses may be used to fulfill this requirement: WoSt 3002, 3003, and 3004.

No more than 4 credits may be taken S-N and no more than 6 credits may be directed study or internship projects.