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Division Structure

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

There are also courses from disciplines across the campus offered through Continuing Education (CE). Such courses serve two distinct purposes. Some CE courses are on topics not found elsewhere in the curriculum and are designed for regularly enrolled students. These courses are identified by “CE:” at the beginning of the course title. Other Continuing Education courses are offered primarily to off-campus students enrolled in such programs as extension classes or through GenEdWeb, an online program targeted to academically talented high school students. All courses offered through UMM Continuing Education have an academic home in one of UMM’s disciplines.

Courses are listed alphabetically by discipline. Each discipline description includes, as appropriate, requirements for the major, the minor, and teacher education licensure.

Division of Education

   Education (page 88)
   Elementary Education (page 89)
   Secondary Education (page 93)
   Wellness and Sport Science (page 162)

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

Intercollegiate athletics, lifetime physical activity classes, coaching endorsement, and courses addressing sports management and various wellness issues are offered in the wellness and sports science discipline.

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

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

Division of the Humanities

   Art History (page 73)
   Art, Studio (page 75)
   Dance (page 85)
   English (page 98)
   French (page 108)
   German (page 113)
   Humanities (page 119)
   Italian (page 122)
   Music (page 136)
   Philosophy (page 140)
   Russian (page 150)
   Spanish (page 154)
   Speech Communication (page 157)
   Theatre Arts (page 160)

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

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

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

- Student art exhibitions, an active student Art Club, and Art Gallery exhibits of works by professional artists.
Division Structure and Course Descriptions

- Scheduled poetry readings; the Prairie Gate Press; foreign and American films; the Writing Room to help students develop creative and expository writing skills; lectures on literary and language subjects; French, German, and Spanish student clubs with a variety of projects; opportunities for language students to travel and study abroad.
- A varied program of musical events, including concert band, orchestra, jazz ensemble, and choir concerts, as well as recitals by students and faculty; opportunities to work with well-known composers and artists in residence; tours.
- A Philosophy Colloquium in which internationally distinguished philosophers participate.
- A number of opportunities in speech communication, including sponsorship of speakers and discussion groups, student attendance at conferences, and participation in the student organization Communications Club.
- Annual offering of faculty- and student-directed plays; opportunities to work with professional troupes in residence; annual theatre tour to New York or London.

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

Finally, the Division of the Humanities offers its students one of UMM’s most beautiful and useful facilities, the Humanities Fine Arts Center—a building that has been granted by Progressive Architecture its First Design Award with the following citation:

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

Division of Science and Mathematics

- Biology (page 77)
- Chemistry (page 80)
- Computer Science (page 82)
- Geology (page 111)
- Mathematics (page 134)
- Natural Science (page 139)
- Physics (page 142)
- Statistics (page 158)

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

Students have many opportunities to get to know their instructors and perhaps be associated with them on research projects. Students have worked with faculty on evolutionary computation, distributive computing, and asynchronous transfer mode networks. They have helped develop a variety of methods for the analysis of statistical data, such as a loglinear model of educational data and the representation of three-dimensional copulas in terms of two-dimensional marginals. Students have done research into the physics of highly excited atoms, studied emissions of astronomical masers, performed observational optical astronomy, and modeled the behavior of materials with computers. They have conducted investigations into molecular biology and the genetic engineering of microorganisms, the ecology of prairies, and the genetics and ecology of amphibians. They have studied the geology of glacial deposits in Minnesota, analyzed the fossils and sediments of the Cretaceous Seaway in South Dakota, and contributed to faculty field research in the Rocky Mountains of Colorado and Idaho. They have conducted research on the breakdown of pesticides, the preparation of novel chemical compounds, and the development of new chemical reactions both at UMM and in universities and laboratories across the country. Students are encouraged to publish results of their research with faculty or to present their findings at conferences or seminars. Many students at some time serve as teaching assistants, earning money while assisting professors in tasks, such as helping with laboratory courses, tutoring beginning students, assisting with greenhouse maintenance, and operating the UMM telescope.

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

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

The Division of Science and Mathematics programs are housed in new and remodeled facilities. Biology and chemistry labs, along with several classrooms, the campus bookstore, post office, and print shop are all located in the new east wing of the Science Building which was built in 2000. The computer science, geology, mathematics, physics, and statistics programs are located in the west wing of the Science Building which was thoroughly renovated in 2002. These state-of-the-art teaching and research spaces provide students with a wealth of opportunities to delve deeply into their studies through both course-related work and individualized research activities.

**Division of the Social Sciences**

- Anthropology (page 71)
- Economics (page 86)
- Geography (page 111)
- History (page 115)
- Liberal Arts for the Human Services (page 125)
- Management (page 131)
- Political Science (page 143)
- Psychology (page 147)
- Social Science Major (page 151)
- Sociology (page 152)
- Women’s Studies (page 164)

The social sciences consist of the branches of study dealing with the structure of society and the activities of its members. The Division of the Social Sciences includes the disciplines of anthropology, economics, geography, history, management, political science, psychology, and sociology. In addition, its courses are incorporated into the interdisciplinary programs in Latin American Area Studies, Women’s Studies, and European Area Studies, and it offers a major in Liberal Arts for the Human Services and a social science major for teacher licensure. The social sciences coursework is oriented toward liberal education studies that prepare students to understand human beings in their social relationships.

Many of the social science disciplines encourage various kinds of fieldwork. Students intern on the local as well as state and federal levels as social workers, counselors, state legislative assistants, and administrative assistants in a variety of programs and organizations, including the Older Adults Program, welfare agencies, and group homes.

A number of students have co-authored studies with faculty and have presented papers at professional conferences. Many students serve as research and teaching assistants. They have used primary research materials to recreate historical events for reports filed in the archives of the West Central Minnesota Historical Research Center. They go beyond the boundaries of the strictly “classroom” education to explore and gain firsthand experience with the professional tools of their field.

UMM’s Division of the Social Sciences has many resources that lend themselves well to establishing individual learning experiences. Among these are the West Central Minnesota Historical Research Center, Psychology Laboratory, Project on Fantasy, Model United Nations Program, and a wide variety of internship and field studies programs.

Close student-faculty rapport is an important aspect of social sciences study. Individualized attention is emphasized and students are encouraged to work on a one-to-one basis with professors to create a program that best suits their needs and interests.

**Interdisciplinary Programs**

- African American Studies (page 70)
- European Studies (page 103)
- Interdisciplinary Studies (page 120)
- Latin American Area Studies (page 122)

UMM offers interdisciplinary majors and/or minors, whose educational objectives are realized through an integration of courses from two or more disciplines, in African American Studies, European Studies, Latin American Area Studies, Liberal Arts for the Human Services, and Women’s Studies. Interdisciplinary course offerings not associated with an interdisciplinary major or minor involve in-depth material of two or more traditional academic disciplines or divisions, and some include subject material of a very broad nature that cannot properly be regarded as a part of a traditional discipline or division.
Continuing Education, Regional Programs, and Summer Session

Art, Studio (page 75)
Biology (page 77)
Dance (page 85)
Education (page 88)
English (page 98)
French (page 108)
Geology (page 111)
Interdisciplinary Studies (page 120)
Italian (page 122)
Music (page 136)
Political Science (page 143)
Theatre (page 160)
Wellness and Sport Science (page 162)

Continuing Education, Regional Programs, and Summer Session (CERP) shares in the liberal arts mission of UMM and also serves as the primary outreach unit of the campus. CERP offers credit and non-credit courses and programs; some are designed to serve regularly enrolled students while others are targeted largely to off-campus students.

CE courses are listed at the end of each discipline that has Continuing Education offerings. For complete details on the mission, function, and work of Continuing Education, Regional Programs, and Summer Session see page 8 in this catalog.
Degree Requirements and Course Descriptions

Course Numbers and Designators
Course numbers reflect the level of difficulty of a course. Generally, courses numbered 1xxx are for undergraduates in their first year of study, courses numbered 2xxx are for undergraduates in their second year of study, courses numbered 3xxx are for undergraduates in their third year of study, and 4xxx are for undergraduates in their fourth year of study. Some courses require prerequisite coursework or advanced class status for entrance while others do not. Students should plan their programs carefully to complete courses in the proper sequence.

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

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

1201-1202-1203 .........A hyphen between course numbers indicates a sequence of courses that must be taken in the order listed. The first course in the sequence is a prerequisite for the second course, and the second course in the sequence is a prerequisite for the third course.

1201, 1202, 1203 ........A comma between course numbers indicates a series of courses that may be entered any semester.

CE ..............................“CE.” at the beginning of a course title indicates a Continuing Education course.

Honors ........................“Honors:” at the beginning of a course title indicates an Honors course.

f,s ................................Following a course number, indicates fall, spring semester.

Sci-L ...........................Courses that meet specific general education requirements are designated as FYS, CW, FL, M/SR, ArtP, Hist, SS, Hum, FA, Sci, Sci-L, HDiv, Env, IP, E/CR. (See page 61 for more information about general education requirements.)

cr ................................Credits per semester.

#.................................Approval of the instructor is required for registration.

 prereq ........................Before enrolling in some courses, students must have successfully completed certain other courses, or possess some particular qualification or class standing, known as a "prerequisite" (prereq). Students taking one or more courses as a prerequisite for a second course may register for the second course only after they have successfully completed the prerequisite course(s). If no prerequisites are listed, there are none for the course. A prerequisite listed by number only (e.g., prereq 3105) is in the same discipline as the course being described.

coreq ...........................Students must be enrolled in the corequisite (coreq) course(s) at the same time. If no corequisites are listed, there are none for the course. A corequisite course listed by number only (e.g., coreq 3105) is in the same discipline as the course being described.

prereq or coreq ..............Students must either successfully complete the prerequisite course, OR may enroll in the pre/corequisite course concurrently.

................................In prerequisite and corequisite listings, a comma means “and.”

∆ .................................Approval of the discipline offering the course is required for registration.

@ .................................Approval at the college level (i.e., a form with appropriate signatures) is required for registration.

Cluster ........................Some courses are grouped into "clusters" because they have common themes or fulfill common requirements. Most clusters are headed by a paragraph identifying the shared elements of the courses.

The most current version of all UMM course descriptions can be found online at http://onestop2.umn.edu/courses/mo/designators.jsp.
African American Studies (AfAm)

This interdisciplinary minor is under the authority of the vice chancellor for academic affairs and dean and is administered by the coordinator of African American Studies.

African American experience and culture are central to American experience and culture. The African American Studies minor allows students of all racial and ethnic identities both to concentrate on African American issues and to integrate their understanding of those issues into the broader context of American and African history and culture. The minor offers an interdisciplinary and interdivisional curriculum that enables students to explore a variety of intellectual approaches and to make methodological and thematic connections and comparisons among those several approaches.

Objectives — The objectives of the African American Studies minor are to 1) familiarize students with the variety, depth, and significance of African Americans’ contributions to American culture; 2) enable students to see and appreciate the many African American points of view of history, society, politics, literature, art, and music; 3) help students connect the African American experience to the broader context of Africa and the African diaspora; 4) develop students’ understanding of the nature of race and the dynamics of race and racism, particularly in the United States; and 5) give students a grasp of some of the methodological and intellectual approaches to a broad and multifaceted area of study.

Minor Requirements

Students must take a minimum of six courses in at least three different disciplines. At least four of the six courses must be devoted primarily to African American content. As many as two of the six courses may deal in part with African American content. Courses in which a student earns a D or lower do not count toward the minor.

Courses with PRIMARILY African American content:
ArtH 3241 — African American Art
Engl 2041 — Introduction to African American Literature
Engl 3301 — U.S. Multicultural and Multiracial Literatures
Hist 3302 — Colonial and U.S. History Before 1860: African American History to 1865
Hist 3357 — U.S. History Since 1860: African American History Since 1865
Soc 3251 — African Americans

Courses with PARTIAL African American content or relevant African content:
Engl 3331 — African American Literature

Course Descriptions
ArtH 3241s. African American Art. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; not offered 2005-06)
Survey of African American art from colonial times to the present, focusing on social context and aesthetic and biographical issues.

Engl 2041s. Introduction to African American Literature. (HDiv; 4 cr; prereq 1011 or equiv; offered when feasible)
Introduction to issues and themes in African American literature and culture, with emphasis on historical and cultural context.

Engl 3301f. U.S. Multicultural and Multiracial Literatures. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
Examination of literatures by African American, Native American, Asian American, Chicana/o, U.S. Latino/a, and other underrepresented peoples.

Engl 3331f. African American Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
Study of African American literature. Particular attention given to issues of gender, class, power, “passing,” and the racialized body.

Fren 1311f. West African Francophone Cinema. (IP; 4 cr; prereq #)
Same as Hum 1311. Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Taught in English, but all papers and some reading/discussion will be in French. Meets Francophone requirement in French major.

Fren 3041f. FRS: Francophone Worlds. (IP; 4 cr; prereq or coreq 3011 or #; not offered 2006-07)
Readings in a variety of cultural and literary texts from among French-language writers of Africa, the Caribbean, Asia, North America, and Europe; study of issues of national identity, race, gender, and postcolonial consciousness. Meets Francophone requirement in French major.
Fren 3042. FRS: Contes Francophones. (IP; 4 cr; prereq or coreq 3011 or #; not offered 2006-07)
Study of the oral tale in African and Caribbean cultures. Examination of the form of these tales, their thematic structure, and how these tales have been translated into written and/or cinematographic texts. Meets Francophone requirement in French major.

Fren 3043. FRS: Littérature Migrante. (IP; 4 cr; prereq or coreq 3011 or #; offered when feasible)
Examination of texts written by people on the move: immigrants, migrants, people in exile. How do their texts move with them? How do these movements challenge national paradigms? Meets Francophone requirement in French major.

Hist 3004. Africa to 1700. (Hist; 4 cr; offered when feasible) History of Africa to 1700.

Hist 3005. Africa Since 1700. (Hist; 4 cr; offered when feasible) History of Africa since 1700.

Hist 3301f. Red, White, and Black: Race and Culture in Early America. (HDiv; 4 cr; not offered 2006-07)
History of race in early America. Exploration of the coming together of three groups of peoples—Africans, American Indians, and Europeans—and the roles which they played in the emergence of the “first new nation.”

Hist 3302. African American History to 1865. (HDiv; 4 cr; offered when feasible)
The African-American experience in historical perspective: African origins; slavery, struggles for freedom and equality; cultural, economic, political, and social development in a slave society.

Background of the Civil Rights movement, emergence of the theory and practice of nonviolence, various Civil Rights groups, role of women, legislative and other accomplishments of the movement, its aftermath and influence.

Hist 3357. African American History Since 1865. (HDiv; 4 cr; offered when feasible)
The African-American experience in historical perspective: the emancipation era; struggles for freedom and equality after slavery; cultural, economic, political and social development in an industrial and post-industrial society.

Hum 1311f. West African Francophone Cinema. (IP; 4 cr)
Same as Fren 1311. Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1311.

Pol 3262f. Minorities and Public Policy. (HDiv; 4 cr; prereq 1201 or #; not offered 2006-07)
Analysis of the ways race, ethnicity, and other factors shape political engagement; their implications for public policy and the policy process.

Pol 3506f. Government and Politics of Africa. (IP; 4 cr; prereq 1301 or #)
Comparative study of government and politics of contemporary Africa, with special attention to state/society relations, interaction of politics and economic development, political institutions, and conflict.

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

Soc 3121f. Sociology of Gender. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #)
An introduction to the sociological study of gender. Focus on gender difference and gender inequality. Analysis of the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today’s world. Theoretical overview and an examination of how gender affects everyday experiences.

Soc 3141f. Sociology of Deviance. (E/CR; 4 cr; prereq 4 cr in Soc or #)
An introduction to the sociological study of deviance. Explore the social reality of deviance within contemporary society and examine the social construction of deviant categories. Specific focus on images of deviance as social constructs, rather than as intrinsic elements of human behavior. Investigation of the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also, an examination of the sociocultural definitions of morality and behavior.

Soc 3251f. African Americans. (HDiv; 4 cr; prereq 1101 or Anth 1111)
Examination of African American religious, economic, political, family, and kinship institutions in the context of the greater American society. Struggles to overcome problems and the degree of success or failure of these struggles are examined and placed in historical context.

Anthropology (Anth)

This discipline is in the Division of the Social Sciences. The anthropology curriculum, with support from sociology courses, focuses on providing a comparative understanding of the range of human cultures and societies throughout the world in both humanistic and social scientific terms. Anthropology applies this understanding to problems faced by different groups of people in the flux of the modern world. Courses meet the needs of liberal arts students and students planning to pursue anthropology at the graduate level.

Objectives—Anthropology courses are designed to provide an understanding of human beings and human society with respect to both biology and culture. Students are exposed to a broad historical and comparative framework within which to view the variety of human cultures. Coursework deals with concepts, techniques, and substantive knowledge of the branches of the field, e.g., physical anthropology, social and cultural anthropology, ethnology, archaeology, linguistics, and applied anthropology. (See Sociology for more information.)
Division Structure and Course Descriptions

Major Requirements
A minimum of 36 credits in anthropology and sociology, 28 of which must be in courses above 1xxx, including:

Anh 1111 — Introductory Cultural Anthropology
Anh 2101 — Physical Anthropology
Anh 3411 — Seminar in Anthropological Methodology
Anh 4901 — Seminar in Anthropological Theory
Anh 4993 — Directed Study

One course from:
Anh 2301 — Social Change and Development in Latin America
Anh 2302 — Women in Latin America
Anh 2402 — Native American Ethnography
Anh 2451 — Contemporary Native Americans
Anh 2452 — Native American Women
Anh 3301 — India and South Asia

Students develop a coherent program of study in consultation with their major adviser generally no later than the spring semester of their sophomore year. Up to four credits of D may be used to meet the major requirements if offset by a sufficient number of higher grades to meet the minimum requirement of a cumulative GPA of 2.33 in all courses included in the major.

Minor Requirements
A minimum of 24 credits in anthropology and sociology, 16 of which must be in courses above 1xxx, including:

Anh 1111 — Introductory Cultural Anthropology
Anh 2101 — Physical Anthropology
Anh 3411 — Seminar in Anthropological Methodology

Teacher Preparation Requirements
Students seeking teaching licensure in social studies 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions
Note: Anh 2301, 2302, 2451, 2452, 3203, and 3204 may also be taken for credit in Sociology.

Anh 1111f, s. Introductory Cultural Anthropology. (SS; 4 cr)
Varieties and range of human behavior as revealed through the comparative study of cultures throughout the world. Concepts developed by anthropologists to explain both the unity and diversity of humankind.

Anh 2101f. Physical Anthropology. (Sci-L; 4 cr; A-F only)
Prehistoric human life and culture. Processes of human evolution. The fossil record linking anatomically modern humans with our earliest hominoid ancestors. Human and other primate evolution and genetics. Includes a 90-minute lab session to be scheduled.

Anh 2301s. Social Change and Development in Latin America. (IP; 4 cr; prereq 1111 or Soc 1101 or #)
Same as Soc 2301. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and culture change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Anh 2302f. Women in Latin America. (IP; 4 cr; prereq 1111 or Soc 1101 or #)
Same as Soc 2302. Study of social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women, etc.

Anh 2402f. Native American Ethnography. (HDiv; 4 cr; prereq 1111 or Soc 1101; not offered 2006-07)
An analysis of ethnographic and ethnohistoric materials focusing on specific Native American cultures.

Anh 2451f. Contemporary Native Americans. (HDiv; 4 cr; prereq 1111 or Soc 1101 or #; not offered 2005-06)
Same as Soc 2451. The cultures, problems, and resurgence of Native Americans in the 20th and 21st centuries. Government policies; education, religion, self-determination, family, gaming, etc.

Anh 2452s. Native American Women. (HDiv; 4 cr; prereq 1111 or Soc 1101 or #)
Same as Soc 2452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Anh 2501f. Medical Anthropology—An Overview. (SS; 4 cr; prereq 1111 or Soc 1101 or #)
Utilizes an ecological perspective to explore cultural understandings of health and illness in a variety of societies in North America and abroad. Examines the effects of cultural and physical adaptation, nutrition, culture contact, and modernization on the health and well being of people.

Anh 3101f. The Anthropology of Religion. (SS; 4 cr; prereq 1111 or Soc 1101 or #; 4 addtl cr in Anth or Soc recommended)
Comparative study of religion, magic, witchcraft, etc., in various parts of the world. Theories and concepts developed by anthropologists in dealing with religious phenomena in a cross-cultural perspective.

Anh 3202a. Culture and Biology. (Envt; 4 cr; prereq 1111 or Soc 1101 or #)
Examines the interrelationships between biology and culture, using various cultures in the ethnographic record to assess the applicability of a range of biologically inspired hypotheses for aspects of human behavior and intelligence. The nature-nurture debate.

Anh 3203s. Indigenous Peoples of the World: A Cultural Perspective. (IP; 4 cr; prereq 1111 or Soc 1101 or #; not offered 2005-06)
Same as Soc 3203. Examination of the cultures of indigenous peoples of the Americas, Asia, Africa, and Oceania. Particular attention is paid to processes of assimilation and acculturation, as well as contemporary efforts in identity formation.
## Art History (ArtH)

This discipline is in the Division of Humanities. Art history involves the study of ways the visual arts reflect and shape the world’s cultures.

### Objectives
The purposes of the art history curriculum are to develop students’ understanding of some of the historical traditions in the visual arts, to teach students methods of analysis and interpretation of works of art, and to help students learn how to evaluate the quality of works of art. Students are encouraged to have direct contact with art by means of studio art courses, class field trips, gallery internships, and study abroad experiences.

### Major Requirements
- **ArtH 1101** — Principles of Art
- **ArtH 1111** — Ancient and Medieval Art
- **ArtH 1121** — Renaissance to Modern Art
- **ArtH 3101f** — Basic Studio Drawing I
- **ArtH 3102** — Basic Studio Drawing II
- **ArtH 3103** — Basic Studio 2-D Design
- **ArtH 3104** — Basic Studio 3-D Design
- **ArtH 3105** — Basic Studio Discussion I
- **ArtH 3106** — Basic Studio Discussion II
- 24 additional credits in art history

Courses with grades of D may not be used to meet the major requirements. Required courses may not be taken S-N unless offered S-N only.

### Minor Requirements
- **ArtH 1101** — Principles of Art
- **ArtH 1111** — Ancient and Medieval Art
- **ArtH 1121** — Renaissance to Modern Art
- 12 additional credits in art history

Courses with grades of D may not be used to meet the minor requirements. Required courses may not be taken S-N unless offered S-N only.

### Course Descriptions

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tr>
<td>ArtH 1101</td>
<td>Principles of Art</td>
<td>4 cr</td>
<td>1111 or Soc 1101 or Soc 1101 or #; not offered 2005-06</td>
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<tr>
<td>ArtH 1111</td>
<td>Ancient and Medieval Art</td>
<td>4 cr</td>
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<td>ArtH 1121</td>
<td>Renaissance to Modern Art</td>
<td>4 cr</td>
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<td>ArtH 3101f</td>
<td>Basic Studio Drawing I</td>
<td>4 cr</td>
<td>any 1xxx ArtH course or jr status or #; not offered 2006-07</td>
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**Minor Requirements**

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**Major Requirements**

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**Course Descriptions**

- **ArtH 1101** — Principles of Art
  - An introduction to the theories, methods, and vocabulary of art history. Involves development of basic skills of research and of analysis and interpretation of individual works of art. Helps the student to understand the intrinsic as well as the historical-cultural meanings of works of art.

- **ArtH 1111** — Ancient and Medieval Art
  - Origins of art in the Paleolithic period; survey of monuments of ancient Mesopotamia, Egypt, Greece, and Rome as well as the Early Christian, Romanesque, and Gothic styles of western Europe. Also treatment of non-western traditions in ancient and medieval periods.

- **ArtH 1121** — Renaissance to Modern Art
  - Survey of the major works of art of western Europe from 1400 to the present.
Division Structure and Course Descriptions

Arth 3121s. Medieval Italian Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2006-07)
Painting, sculpture, and architecture of central Italy, notably Tuscany, from the 12th to 14th centuries, with attention to the influence of the mendicant monastic orders of the Franciscans and the Dominicans on the art of the period.

Arth 3131. Northern Renaissance Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; offered when feasible)
Painting, sculpture, and architecture of France, Belgium, the Netherlands, and Germany during the late 14th century to the mid-16th century, tracing the development of oil painting and interpreting the significant imagery of the period.

Arth 3142s. Art of the Italian Renaissance, 1300-1520. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2005-06)
A variety of methods (including stylistic, gender, and contextual theories) are used to explore the painting and sculpture of such artists as Giotto, Donatello, Leonardo, Raphael, and Michelangelo.

Arth 3161f. 16th-Century European Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2006-07)
A study of art during a period of cultural upheaval and radical change in Italy and northern Europe from 1520 to 1590.

Arth 3171s. Baroque Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; offered when feasible)
A sociohistorical consideration of the stylistic and thematic diversity present in the works of such 17th-century masters as Caravaggio, Bernini, Velazquez, Rembrandt, and Vermeer.

Arth 3181. Rococo to Revolution. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; offered when feasible)
An examination of the visual arts in relation to social and historical developments in 18th-century Europe, such as the Enlightenment, the French Revolution, archaeological discoveries, the Grand Tour, and the rise of art criticism.

Arth 3191f. American Art to 1900. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2006-07)
A thematic exploration of the role of painting, sculpture, and the decorative arts in American society, from colonial times to 1900. Topics include the landscape and Manifest Destiny, American icons, folk art, and the representation of Native Americans, African Americans, and women.

Arth 3201f. 19th-Century European Art through Post-Impressionism. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2006-07)
Survey of major movements from Neoclassicism through Romanticism, Realism, and Impressionism to Post-Impressionism. Attention is given to iconographical and formal analysis as well as to the social conditions in which artists lived and worked.

Arth 3211s. Early Modernist Art: Symbolism to Surrealism. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2006-07)
Survey of the major early modernist movements from Symbolism through Cubism, Futurism, Expressionism, Constructivism, De Stijl, and the Bauhaus to Surrealism. Attention is given to theories of modern art as well as to formal and iconographical analyses and to the social conditions in which modern art was created and experienced.

Arth 3221f. 20th-Century Art: 1945 to the Present. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2005-06)
An examination of selected artists and movements from the 1940s through the present. Equal emphasis is given to the art and the social context in which it was made and experienced, and to modernist and postmodernist aesthetic and critical thought.

Arth 3231s. History of Photography. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2006-07)
Survey of European and American photography from the period of invention to the present. Major artists and movements are examined in the context of a variety of aesthetic, social, and technical issues.

Arth 3241s. African American Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2005-06)
Survey of African American art from colonial times to the present, focusing on social context and aesthetic and biographical issues.

Arth 3251. Pre-Columbian Arts of the Americas. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; offered when feasible)
The pre-colonial arts of the native peoples of Mexico, South America, and the southwestern United States from 1000 B.C.E. to the 16th century C.E.

Arth 3261f. Chinese Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2005-06)
Survey of Chinese arts from the Neolithic times to the 20th century, presented in the context of Chinese culture.

Arth 3271. The Art of Japan. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; offered when feasible)
A survey of the art of Japan beginning with the introduction of Buddhism in the 6th century followed by a concentration on the Momoyama and Tokugawa periods from the 16th through the 19th centuries, emphasizing the art of printmaking.

Arth 3281f. Women and Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; not offered 2005-06)
A historical survey of women’s roles as creators and patrons of the visual arts in Western European and American societies, from antiquity to the present.

Arth 3291. Facing the Past: Portraiture and Social History. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #)
This seminar examines functions and formats of portraits and the patrons of the visual arts in Western European and American societies, from antiquity to the present.

Arth 4901f.s. Capstone Assessment of Student Experience in Art History. (1 cr; prereq Arth major; S-N only)
Allows students majoring in art history to reflect on the connections among the different courses and experiences they have had in the discipline by compiling a portfolio of their work, writing a short paper, and discussing their experiences with the faculty and other majors.

Arth 3993f.s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq any 1xxx Arth course or jr status, approved directed study form)
Content and nature of the course to be determined by faculty and student consultation. May include individual research and writing, working in relation to the Art Gallery program, or travel and study.
Art, Studio (ArtS)

This discipline is in the Division of the Humanities. Studio art includes studies in the traditional areas of the visual arts as well as in contemporary concerns and techniques. Students are introduced to the skills of critical analysis of works of art and to a variety of media and approaches to their use. In addition, the discipline supports cocurricular activities, including the UMM Student Art Club, student exhibitions, and guest speakers.

Objectives — The goal of the studio art curriculum is to introduce students to the technical, conceptual, and communication skills necessary for activities in the visual arts and to help students understand the major traditions and the cultural significance of the visual arts. Studio courses serve the needs of students planning to pursue graduate studies in art, students interested in exploring their own creative potential as part of their general education, and students preparing for secondary school teaching.

Major Requirements
ArtS 1101 — Basic Studio Drawing I
ArtS 1102 — Basic Studio Drawing II
ArtS 1103 — Basic Studio 2-D Design
ArtS 1104 — Basic Studio 3-D Design
ArtS 1105 — Basic Studio Discussion I
ArtS 1106 — Basic Studio Discussion II
(it is recommended that the above courses be taken during the freshman year)
ArtS 2101 — Second-Year Drawing I
ArtS 2102 — Second-Year Drawing II
ArtS 3881 — Junior Review
ArtS 4881 — Senior Review
ArtS 4901 — Senior Exhibit
A minimum of 12 credits in one of the following three major media and a minimum of 6 credits in another of the three major media:

Printmaking
ArtS 2201 — Beginning Printmaking I
ArtS 2202 — Beginning Printmaking II
ArtS 3200 — Advanced Printmaking I
ArtS 3210 — Advanced Printmaking II

Painting
ArtS 2301 — Beginning Painting I
ArtS 2302 — Beginning Painting II
ArtS 3300 — Advanced Painting I
ArtS 3310 — Advanced Painting II

Sculpture
ArtS 2401 — Beginning Sculpture I
ArtS 2402 — Beginning Sculpture II
ArtS 3400 — Advanced Sculpture I
ArtS 3410 — Advanced Sculpture II

A minimum of 6 credits of 2xxx or above in ArtS electives
4 credits of 1xxx in an ArtH course
8 credits of 3xxx or above in ArtH courses
Courses with grades of D may not be used to meet the major requirements. Required courses may not be taken S-N unless offered S-N only.

Minor Requirements
ArtS 1101 — Basic Studio Drawing I
ArtS 1102 — Basic Studio Drawing II
ArtS 1103 — Basic Studio 2-D Design
ArtS 1104 — Basic Studio 3-D Design
ArtS 1105 — Basic Studio Discussion I
ArtS 1106 — Basic Studio Discussion II
One 12-credit sequence in one major medium or two 6-credit sequences in two different media:

Printmaking
ArtS 2201 — Beginning Printmaking I
ArtS 2202 — Beginning Printmaking II
ArtS 3200 — Advanced Printmaking I
ArtS 3210 — Advanced Printmaking II

Painting
ArtS 2301 — Beginning Painting I
ArtS 2302 — Beginning Painting II
ArtS 3300 — Advanced Painting I
ArtS 3310 — Advanced Painting II

Sculpture
ArtS 2401 — Beginning Sculpture I
ArtS 2402 — Beginning Sculpture II
ArtS 3400 — Advanced Sculpture I
ArtS 3410 — Advanced Sculpture II
ArtS 2101 — Second-Year Drawing I
ArtS 2102 — Second-Year Drawing II
or one 1xxx ArtH course
Participation in ArtS 4901 — Senior Exhibit is encouraged but not required
Courses with grades of D may not be used to meet the minor requirements. Required courses may not be taken S-N unless offered S-N only.

Teacher Preparation Requirements
Students seeking teaching licensure in visual arts K-12 should refer to the Education, Secondary (SeEd) section of this catalog.
Division Structure and Course Descriptions

Course Descriptions

ArtS 1050f. Beginning Ceramics. (ArtP; 3 cr; repeatable to 6 cr)
Personal expression through the medium of clay. Topics include forming methods using stoneware and porcelain (hand building and wheel techniques), glazing, the nature of clay, glaze chemistry, firing, and kilns.

ArtS 1070f-1080s. First-Year Drawing. (ArtP; 3 cr; repeatable to 6 cr; open to nonmajors; should not be taken by students who have completed Basic Studio [see Second-Year Drawing])
For nonmajors with little or no previous experience in drawing. Exploration of line through contour and gesture, continuing with studies of value, texture, and space. Contemporary and traditional modes of drawing explored using a variety of materials.

ArtS 1101 through 1106. Basic Studio. (Coreq 1101, 1103, 1105 in fall or coreq 1102, 1104, 1106 in spring; one 1xxx ArtH course recommended during the same year)
Preparation for advanced work in studio art; four related parts must be taken concurrently and in sequence.


ArtS 1101f-1102s. Basic Studio Drawing I-II. (ArtP; 2 cr per sem)
ArtS 1103f. Basic Studio 2-D Design. (ArtP; 2 cr)
ArtS 1104s. Basic Studio 3-D Design. (ArtP; 2 cr)
ArtS 1105f-1106s. Basic Studio Discussion I-II. (ArtP; 1 cr per sem)
The four parts of Basic Studio must be taken concurrently.

ArtS 2050s. Advanced Ceramics. (ArtP; 3 cr; repeatable to 9 cr; prereq 1050 or #; offered when feasible)
For students who have a working knowledge of basic forming and glazing techniques. Emphasis on advanced hand building and wheel techniques, critiques, glaze experiments, and firing. Assigned projects for the course may vary from semester to semester.

ArtS 2101f. Second-Year Drawing I. (ArtP; 3 cr; prereq major or minor, 1070, 1080 or #)
Via the study of human anatomy, the course increases and improves students’ knowledge and skill in drawing as a traditional art form and as a preparation for work in other media.

ArtS 2102s. Second-Year Drawing II. (ArtP; 3 cr; prereq 2101 recommended)
Allows students to use skills previously gained that relate to drawing the human form in a more individual way, integrates those skills with new ideas, and explores experimental drawing directions.

ArtS 2201f-2202s. Beginning Printmaking I-II. (ArtP; 3 cr per sem; prereq major or minor or # for 2201 for nonmajor jrs and srs)
Study of and practice in various methods of printmaking: application of drawing skills, color, composition, and personal expression to printmaking techniques.

ArtS 2301f, 2302s. Beginning Painting I-II. (ArtP; 3 cr per sem; prereq major or minor or # for nonmajor jrs and srs)
The development of painting as a means of artistic expression including basic technical, material, and formal compositional problems.

ArtS 2401f-2402s. Beginning Sculpture I-II. (ArtP; 3 cr per sem; prereq major or minor or # for 2401 for nonmajor jrs and srs)
Exploration of sculpture as a means of artistic expression, including an introduction to the planning and construction of three-dimensional forms using both traditional and contemporary techniques. A two-semester sequence provides experience with a variety of materials.

ArtS 2500. Photography. (ArtP; 3 cr; repeatable to 9 cr; prereq major or minor or #; offered when feasible)
Introduction to photography as an art medium. Composition and artistic expression explored through basic photographic techniques. Must have a 35 mm camera.

Media Studies: Courses numbered 30xx explore areas of special interest or timeliness not covered by the regular curriculum.

ArtS 3001. Media Studies: Public Space, Installation Art, and New Media. (ArtP; 3 cr; prereq major or minor or #)
Discussion and production of installation and public art. Each student completes three large-scale art projects and one final collaborative installation that is exhibited in the HFA Gallery. Includes exploration of interior space, exterior space, video art, and other contemporary media.

ArtS 3002. Media Studies: Artist’s Books. (ArtP; 3 cr; prereq major or minor or #)
Personal expression through artist’s books. Designed for students who have a working knowledge of the basic principles and skills of art such as drawing, 2D and 3D design, composition, and color theory.

ArtS 3003. Media Studies: Tilemaking. (ArtP; 3 cr; prereq major or minor or #)
A hands-on exploration of the rich history of functional and decorative tile, including mosaics. Students design and build their own ceramic tile, which is, after firing, used to construct tabletops and wall-hung murals. A low-fire clay body, as well as stoneware and porcelain, is available for tile construction.

ArtS 3004. Media Studies: Mural Project and Public Art. (ArtP; 3 cr; prereq major or minor or #)
Understanding and exploration of contemporary mural art through reading, writing, and production of art. Collaborative production of a large-scale painted mural in a public setting. Designed for students who have a working knowledge of the basic principles and skills of art such as drawing, 2D and 3D design, composition, and color theory.

ArtS 3005. Media Studies: Digital Imaging. (ArtP; 3 cr; prereq major or minor or #)
Introduction to the technical, conceptual, aesthetic, and ethical aspects of using the computer to make art. Exploration of digital media software, Web research, scanning, color printing, and digital photography; consideration of the issues facing artists and the art world in the area of digital imaging.
ArtS 3006. Media Studies: Feminist Art: A Studio Perspective. (ArtP; 3 cr; prereq major or minor or #)
The impact of the women’s movement of the 1970s on contemporary art. Exploration of the notion of “women’s work” as a studio practice; the materials, methods, and issues that define feminist work.

ArtS 3007. Media Studies: Printmaking. (ArtP; 3 cr; prereq major or minor or #)
Study of and practice in various contemporary methods of printmaking: application of drawing skills, color, composition, and personal expression to alternative printmaking techniques.

ArtS 3008. Media Studies: Woodfired Kiln Design and Construction. (ArtP; 3 cr; prereq 1101-1106 [10 cr] or #)
Design and construction of a woodfired kiln capable of firing stoneware and porcelain. Examination and critique of historical and contemporary woodfired kiln designs.

ArtS 3100F. Third-Year Drawing I. (ArtP; 3 cr; repeatable to 9 cr; prereq 2101-2102 recommended)
Continued development of the skills and understandings required by traditional problems of drawing.

ArtS 3110S. Third-Year Drawing II. (ArtP; 3 cr; repeatable to 9 cr; prereq 2101-2102, 3100 recommended)
Emphasizes self-direction, experimental approaches and materials, and study of contemporary techniques.

ArtS 3200F-3210S. Advanced Printmaking I-II. (ArtP; 3 cr; repeatable to 9 cr; prereq 2202)
Further exploration of printmaking techniques and skills as a means of artistic expression. Students may register for either semester; however, a year’s continuous work is recommended.

ArtS 3300F-3310S. Advanced Painting I-II. (ArtP; 3 cr; repeatable to 9 cr; prereq 2302 or #)
Further development of painting as a means of artistic expression. Students may register for either semester; however, a year’s continuous work is recommended.

ArtS 3400F-3410S. Advanced Sculpture I-II. (ArtP; 3 cr; repeatable to 9 cr; prereq 2402)
Further development of sculpture as a means of artistic expression. Students may register for either semester; however, a year’s continuous work is recommended.

ArtS 3881S. Junior Review. (0 cr; prereq jr studio art major; S-N only)
Review by the studio art and art history faculty of the student’s work to date. Time of review and work presented decided in consultation with the adviser and the instructor of the major studio area. Normally taken spring semester.

ArtS 4881F. Senior Review. (0 cr; prereq sr studio art major; S-N only)
Review by the studio art and art history faculty of the student’s work, concentrating on the major media and including any work designated at the Junior Review. Time of review and work presented decided in consultation with the adviser and the instructor of the major studio area. Normally taken fall semester.

ArtS 4901S. Senior Exhibit. (0 cr; prereq sr studio art major or minor; S-N only)
Students consult with their adviser and the faculty member facilitating the exhibit for details.

ArtS 3993F-S. 4993F-S. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Continuing Education Courses

ArtS 1039S. CE: Ceramics I. (ArtP; 3 cr)
Exploration in personal expression through the medium of clay. Emphasis is on handbuilding and throwing techniques using stoneware and porcelain. Other topics include clay types and their origin, decorating with slips and glazes, basic firing principles, and the role of the potter in society.

ArtS 1040F. CE: Ceramics II. (ArtP; 3 cr; prereq 1039 or 1050; repeatable to 9 cr with #)
Ceramics II is intended for any student who has taken either Ceramics I or has a working knowledge of basic forming and glazing techniques. Students are expected to work toward higher standards of both technique and design. Assigned topics for this course may vary from semester to semester.

ArtS 1500S. CE: Beginning Photography. (ArtP; 3 cr)
This course is intended for the general student with little or no previous experience in artistic expression. It is an introduction to black and white photography as an art form including processes, materials, brief history, and critical skills to evaluate photographs. Students must provide their own 35 mm cameras.

Biology (Biol)

This discipline is in the Division of Science and Mathematics.

Objectives — The biology curriculum is designed to provide students with biological knowledge and to develop scientific skills as part of their liberal arts education. Included in those skills are the abilities to conduct and interpret scientific research and to successfully communicate scientific information both verbally and in writing. The faculty believe these objectives can best be attained through a balanced core curriculum in biology and a diverse array of elective coursework, both of which include active lab and field experiences. The biology major prepares students for graduate or professional programs and for careers such as secondary biology education, government service, or private sector employment.

Major Requirements

Biol 1101 — Freshman Seminar in Biological Principles
Biol 2101 — Evolution of Biodiversity
Biol 2111 — Cell Biology
Biol 3101 — Genetics
Biol 3121 — Molecular Biology
Biol 3131 — Ecology
Biol 3701 — Biological Communications
Biol 4901 — Senior Seminar
Chem 1101 — General Chemistry I
Chem 1102 — General Chemistry II
Division Structure and Course Descriptions

Chem 2301 — Organic Chemistry I
Chem 2302 — Organic Chemistry II
Chem 2311 — Organic Chemistry Lab I
Math 1021 — Survey of Calculus
Math 1101 — Calculus I
Stat 1601 — Introduction to Statistics
Stat 2601 — Statistical Methods
Biol 1001s. Biological Rhythms. (Sci; 3 cr)
An examination of biological principles through the dimension of time. In particular, short to long cycling behaviors in humans, microorganisms, and chemical systems are studied. (two 65-min lect, one 120-min lab)

Biol 1002s. Human Nutrition. (Sci; 3 cr)

Biol 1051f. Wildlife Biology. (Sci-L; 4 cr; no elective cr for biol majors or minors; offered even-numbered yrs)
Biological principles and practices illustrated through studies of North American wildlife. Wildlife taxonomy, identification, migration and dispersal, ecological relationships, contemporary problems associated with human activities. (two 65-min lect, one 120- or 180-min lab or field study)

Biol 1052f,s. Conservation Biology. (Sci-L; 4 cr; no elective cr for biol majors or minors; offered when feasible)
Survey of topics in conservation biology, with emphasis on topics that have created controversy and debate: loss of biodiversity, endangered species preservation and management, habitat conservation, environmental degradation, and sustainable development. (two 65-min lect, one 120- or 180-min lab or field study)

Biol 1101,s. Freshman Seminar in Biological Principles. (Sci; 3 cr; prereq biol major/minor or any health sciences preprofessional program or ElEd or SeEd major with middle school science specialties or #)
Basic principles of biology, including cellular structure, organismal function, inheritance, and evolution. Emphasizes scientific methods and the biological literature. Includes small group discussions. First course of the biology major sequence. (one 80-min lect and one 80-min discussion)

Biol 2101s. Evolution of Biodiversity. (Sci-L; 4 cr; prereq 1101 or #)
Analysis of evolutionary trends using historical and contemporary evidence. Principles of classification and phylogenetic reconstruction. Includes laboratory survey of the major groups of organisms. (two 65-min lect, one 120-min lab)

Biol 2102f. Human Anatomy. (3 cr; prereq soph)
Same as WSS 2102. Structure of human systems at their organ and cellular levels. (one 100-min lect, one 120-min lab)

Biol 2111f. Cell Biology. (Sci-L; 4 cr; prereq 1101, coreq Chem 1102 or #)
Cell structure and function. Includes topics pertaining to the chemistry, physiology, structure, and reproduction of plant and animal cells. (three 65-min lect and one 120-min lab)

Biol 3101s. Genetics. (Sci-L; 4 cr; prereq 2111 or #)
Principles and mechanisms of inheritance and variation, including cytological, organismal, and population genetics; mechanisms of evolution; and the genetic problems of humans. (two 65-min lect, one 120-min lab)

Biol 3121s. Molecular Biology. (Sci-L; 5 cr; prereq 2111, prereq or coreq 3101, Chem 2301 or #)
Principles and mechanisms of DNA function, protein synthesis, and gene regulation in prokaryotes and eukaryotes. Genetic engineering and evolution at the molecular level. (two 100-min lect, 180-min lab)
Biol 3131f. Ecology. (Sci-L; 4 cr; prereq 2101 or #) Basic principles and models of population biology, community structure and function, and ecosystem dynamics. Lab exercises emphasize fieldwork, techniques for characterizing local plant and animal communities, and experimental investigation of topics such as competition and behavioral ecology. (two 65-min lect, one 180-min lab and field study; weekend field trip required)

Biol 3701f.s. Biological Communications. (1 cr; prereq 2101, 2111, #) Preparation of an extensive literature review paper on a biological topic of the student’s choice.


Biol 4102s. Human Physiology. (Sci; 4 cr; prereq 2111 or #; offered even-numbered yrs) Function of human systems at their organ, cellular, and molecular levels. (three 65-min lect)

Biol 4111s. Microbiology. (Sci-L; 4 cr; prereq 2111, or coreq 3101 or #) Lectures, discussions, and lab experiments on the morphology, physiology, genetics, taxonomy, and ecology of microorganisms, with an emphasis on prokaryotic microbes and viruses. (two 65-min lect, one 180-min lab)

Biol 4121s. Herpetology. (Sci-L; 4 cr; prereq 2101; offered odd-numbered yrs) Survey of amphibians and reptiles, including their evolution, systematics, identification, behavior, ecological relationships, and contemporary problems associated with human activities. (two 65-min lect, one 180-min lab and field studies)

Biol 4131f. Vertebrate Natural History. (Sci-L; 4 cr; prereq 2101; offered even-numbered yrs) Survey of vertebrates, including their evolution, systematics, and ecological relationships. (two 65-min lect, one 180-min lab or field study)

Biol 4141f. Comparative Invertebrate Zoology. (Sci-L; 4 cr; prereq 2101 or #; offered when feasible) Comparative study of the structure, function, natural history, development, and evolution of invertebrate animals. (two 65-min lect, 180-min lab)

Biol 4151f. Entomology. (Sci-L; 4 cr; prereq 2101 or #; offered even-numbered yrs) Structure, life histories, habits, and classification of common families of insects, including their economic significance. (two 65-min lect, 180-min lab; weekend field trip required)

Biol 4161f. Evolution. (Sci; 4 cr; prereq 2101, 2111 or #; 3101 recommended; offered even-numbered yrs) Survey of the history, evidence, and mechanisms of organic evolution. (two 100-min lect)

Biol 4171s. Plant Systematics and Evolution. (Sci-L; 4 cr; prereq 2101, 2111 or #; 3101 recommended; offered odd-numbered yrs) Introduction to the identification and phylogenetics of land plants. Survey of the major trends in plant evolution, including morphological and life history variation among major plant taxa. Use of keys for local flora emphasized. (two 65-min lect, one 180-min lab and field study)

Biol 4181f. Developmental Biology. (Sci-L; 4 cr; prereq 2111, 3101 recommended; A-F only; offered even-numbered yrs) Survey of general concepts in developmental biology, emphasizing molecular mechanisms of positional information, pattern formation, and cellular interactions. Stresses comparative aspects of developmental processes, and the role of development in evolution. (two 65-min lectures, one 180-min lab)

Biol 4191f. Freshwater Biology. (Sci-L; 4 cr; prereq 2101, 2111 or #; offered odd-numbered yrs) Structure, function, and biota of freshwater ecosystems, including lakes, streams and wetlands. Lab emphasizes independent research and field study in local habitats. (two 65-min lect, one 180-min lab; weekend field trip required)


Biol 4301. Plant Biology. (Sci-L; 4 cr; prereq 2101, 2111 or #; offered when feasible) Descriptive and experimental study of plants. Anatomy, development, physiology, secondary compounds, evolution, human uses of plants. (two 65-min lect, one 180-min lab)

Biol 4311f. Conservation Genetics. (Sci-L; 4 cr; prereq 3101 or #; Stat 1601 or 2601 or 2611 recommended; offered even-numbered yrs) Introduction to theory of population differentiation and gene flow; applications to managing and recovering rare species. Adaptive and neutral models, linkage disequilibria, effective population size, inbreeding depression, population genetic structure. Labs use computers to model genetic changes in populations and analyze genetic structure. (two 100-min lect, one 120-min lab)

Biol 4321s. Animal Physiology. (Sci-L; 4 cr; prereq 2111; offered odd-numbered yrs) Functions of animal structures as they relate to coping with different environmental situations. (two 65-min lect, one 120-min lab)

Biol 4331. Global Change Ecology. (Sci; 4 cr; prereq 3131 or #; offered even-numbered yrs) Global cycles of carbon, water, and nutrients. Advanced consideration of community and ecosystem structure and function. Analysis of natural and human drivers of change in biological systems, including use of quantitative methods and computer models.

Biol 4600. Practicum in Biology. (1-2 cr; repeatable to 4 cr; prereq #; no elective cr for biol majors or minors; S-N only) Supervised experience of selected activities; lab preparation/management, greenhouse care/management, animal care, curating museum/herbarium collections. Repeatable with different projects or activities.

Biol 4611f. Biochemistry Lab. (1 cr; prereq or coreq 4211 or #) Experiments using the major separation and analytical techniques of biochemistry, including centrifugation, chromatography, electrophoresis, and spectrophotometry. (one 180-min lab)

Biol 4901f. Senior Seminar. (1 cr; prereq 3701, sr or #; required of all sr biology majors; full year course begins fall sem) Seminar on selected biological topics.
**Biol 4993f,s. Directed Study.** (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

**Continuing Education Courses**

**Biol 1053. CE: Introduction to Insect Biology.** (Sci-L; 4 cr; offered summer, even-numbered yrs)
Basic concepts in insect biology including evolutionary history, life-cycles, classification, and ecology; examination of how insects and other arthropods interact with human society including insects as vectors of human disease, forensic entomology, insects in agriculture, beneficial uses of insects in the production of food and fiber, and insect-inspired art and literature. (three 75-min lect, two 165-min labs, one all-day field trip required in addition to labs)

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**Chemistry (Chem)**

This discipline is in the Division of Science and Mathematics. Coursework in chemistry spans the four traditional areas of analytical, inorganic, organic, and physical chemistry. Students may also pursue a degree in chemistry with a biochemistry subfield, involving significant coursework in biology. All majors must study beginning physics and calculus. Students may also design an interdisciplinary area of concentration in chemistry-related fields, such as geochemistry or environmental science. Beginning chemistry courses satisfy the physical sciences component of the general education requirements.

Chemistry majors, particularly in upper division courses, do hands-on work with chemical instrumentation and use computers in both software and hardware applications. The faculty prides itself on working closely with its students on undergraduate research projects, directed studies, and undergraduate teaching assistantships. In addition, chemistry majors are encouraged to complete summer research internships at university and industrial labs or at other research facilities, locally and nationally. Study in chemistry is the prerequisite for many preprofessional programs at UMM. Students who also do work in the Division of Education can obtain licensure in secondary education. About two-thirds of UMM’s chemistry majors pursue postgraduate work toward a doctoral degree—most of them in chemistry, many in medicine, but also in other health-related fields, such as veterinary medicine and dentistry, in biological fields related to chemistry, and in a variety of other fields. The other third enter the job market upon graduation, primarily in the chemical industry or in secondary education.

**Objectives**—The chemistry curriculum focuses on the structure of matter and the conditions required for material change. It is designed to prepare students for graduate study in chemistry or related fields or for a career in the chemical industry or in secondary teaching.

**Major Requirements**

Students may complete a major in chemistry through one of two tracks—the standard chemistry major or the chemistry major with a biochemistry subfield. All students must take the following core courses:

- Chem 1101 — General Chemistry I
- Chem 1102 — General Chemistry II
- Chem 2301 — Organic Chemistry I
- Chem 2302 — Organic Chemistry II
- Chem 2311 — Organic Chemistry Lab I
- Chem 2321 — Introduction to Research
- Chem 3101 — Analytical Chemistry
- Chem 3501 — Physical Chemistry I
- Chem 3901 — Chemistry Seminar I
- Chem 4901 — Chemistry Seminar II
- Math 1101 — Calculus I
- Math 1102 — Calculus II
- Phys 1101 — General Physics I
- Phys 1102 — General Physics II

**Standard chemistry major requirements**

Chem 3502 — Physical Chemistry II
Chem 3511 — Physical Chemistry Lab
and two elective courses chosen from:

- Chem 3111 — Instrumental Analysis
- Chem 3701 — Inorganic Chemistry
- Chem 3801 — History of Chemistry
- Chem 3811 — Macromolecules
- Chem 4351 — Bioorganic Chemistry
  or another Chem courses numbered 43xx–47xx
  or Biol 4211 — Biochemistry
  and Biol 4611 — Biochemistry Lab

**Note:** Biol 4211/4611 and Chem 4351 may not both be used to satisfy the requirement for two elective courses.

**Chemistry major with biochemistry subfield requirements**

- Biol 1101 — Freshman Seminar in Biological Principles
- Biol 2111 — Cell Biology
- Biol 3101 — Genetics
- Biol 3121 — Molecular Biology
- Biol 4211 — Biochemistry
- Biol 4611 — Biochemistry Lab
- Chem 4351 — Bioorganic Chemistry
  and one course from:
- Chem 3111 — Instrumental Analysis
- Chem 3502 — Physical Chemistry II
- Chem 3701 — Inorganic Chemistry
- Chem 3801 — History of Chemistry
- Chem 3811 — Macromolecules
  or another Chem course numbered 43xx–47xx
Required courses may not be taken S-N unless offered S-N only. Up to 8 credits of coursework with a grade of D may be used to meet the major requirements if offset by an equivalent number of credits of A or B. Students should consult members of the chemistry faculty in order to plan programs of study appropriate to their interests and postgraduate goals.

**Minor Requirements**

Chem 1101 — General Chemistry I  
Chem 1102 — General Chemistry II  
Chem 2301 — Organic Chemistry I  
Chem 2311 — Organic Chemistry II  
Chem 3101 — Analytical Chemistry  
or  
Chem 3501 — Physical Chemistry I

Two additional Chem lecture courses numbered 2302 or above. If Chem 3101 is not taken, one of these must include lab or have a concurrent lab registration. Biol 4211 — Biochemistry may count as one of these two courses and Biol 4611 taken concurrently will fulfill the lab requirement.

Required courses may not be taken S-N except where noted. Up to 8 credits of coursework with a grade of D may be used to meet the minor requirements if offset by an equivalent number of credits of A or B.

**Teacher Preparation Requirements**

Students seeking teaching licensure in chemistry 9-12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Course Descriptions**

Chem 1101f. General Chemistry I. (Sci-L; 4 cr; prereq Math 0901 or placement beyond Math 0901 using ACT/placement exam score)  
Scientific method, measurements, nomenclature, stoichiometry, atomic and molecular structure, chemical periodicity, and properties of common elements and ions. Development of scientific reasoning and problem-solving skills. Lab exercise concomitant with these topics. (3 hrs lect, 3 hrs lab)

Chem 1102s. General Chemistry II. (Sci-L; 4 cr; prereq 1101)  
Continuation of Chem 1101. Chemical bonding, states of matter, solutions, acid-base chemistry, chemical equilibrium, oxidation-reduction reactions, kinetics, thermodynamics, quantum theory, nuclear chemistry, organic chemistry, and biochemistry. (3 hrs lect and rec, 3 hrs lab)

Chem 2301f. Organic Chemistry I. (Sci; 4 cr; prereq 1102, coreq 2311)  
Introduction to the structure and reactivity of organic molecules; nomenclature and functional groups; stereochemistry; mechanisms of substitution and elimination pathways; physical organic chemistry; introduction to synthetic strategy; fundamentals of spectroscopic techniques. (4 hrs lect)

Chem 2302s. Organic Chemistry II. (Sci; 4 cr; prereq 2301, coreq 2321 or # for chem majors)  
Continuation of topics from Chem 2301; spectroscopy; chemistry of polyenes, aromatic systems, and amines; enol and enolate chemistry; free-radical chemistry; retrosynthetic analysis; special topics. (4 hrs lect)

Chem 2311f. Organic Chemistry Lab I. (1 cr; coreq 2301 or #)  
Development of lab techniques in organic chemistry; experimental problem solving. (3 hrs lab)

Chem 2312s. Organic Chemistry Lab II. (1 cr; prereq 2311, coreq 2302 or #)  
Experiments in organic chemistry; synthesis and experimental design; spectral analysis. (3 hrs lab)

Chem 2321s. Introduction to Research. (Sci-L; 2 cr; coreq 2302 or #)  
Interdisciplinary approach to experiment design and analysis of data. Synthesis of organic, organometallic, and/or inorganic compounds, with emphasis on purification and characterization using instrumental methods. Instruction in use of the scientific literature and scientific report writing. (6 hrs lab)

Chem 3101f. Analytical Chemistry. (Sci-L; 4 cr; prereq 3102)  
The application of chemical equilibria to chemical analysis with emphasis on the fundamental quantitative aspects of analytical chemistry. Acid-base, oxidation-reduction, and complexometric titrations, introduction to electrochemical and spectrophotometric analyses and separations. (3 hrs lect, 3 hrs lab)

Chem 3111. Instrumental Analysis. (Sci-L; 4 cr; prereq 3101; offered odd years)  
Principles of chemical instrumentation and instrumental methods of analysis; extensive lab work using chromatographic, spectrophotometric, and electrochemical methods of analysis. (2 hrs lect, 4 hrs lab)

Chem 3501f. Physical Chemistry I. (Sci; 4 cr; prereq 1102, Phys 1101, Math 1102 or #)  

Chem 3502s. Physical Chemistry II. (Sci; 4 cr; prereq 3501, coreq 3511 or # for chem majors)  
Introduction to quantum theory. Atomic and molecular structure. Group theory. Introduction to statistical mechanics. Chemical dynamics. Topics drawn from the liquid and solid states, advanced kinetics, electrochemistry, and surfaces. (4 hrs lect)

Chem 3511s. Physical Chemistry Lab. (1 cr; coreq 3502)  
Lab experiments to illustrate physico-chemical principles and to develop skills in data collection, analysis, and interpretation and in report writing. (3 hrs lab)

Chem 3701. Inorganic Chemistry. (Sci; 3 cr; prereq 3501 or #)  
The periodic table; models of structure and bonding of main group elements and transition metals, nomenclature, symmetry, and bonding theory of coordination compounds. (3 hrs lect)

Chem 3711s. Inorganic Chemistry Lab. (1 cr; coreq 3701 or #)  
Lab experiments in inorganic/organometallic chemistry illustrating synthetic and spectroscopic techniques. (3 hrs lect)

Chem 3801f. History of Chemistry. (Sci; 3 cr; prereq 2301 or #; offered odd-numbered yrs)  
division Structure and Course Descriptions


Chem 3901s. Chemistry Seminar I. (1 cr; prereq 2321; required of all chem majors; may not count toward chem minor) Presentations by faculty, guest speakers, and students on topics of current research interest. Students are required to present one seminar for the Chem 3901-4901 sequence.

Chem 4351s. Bioorganic Chemistry. (Sci; 3 cr; prereq 2302, Biol 4211; offered odd-numbered yrs) Discussion of the theory of enzyme catalysis and catalytic antibodies, experimental determination of catalytic mechanisms for a variety of organic reactions in biological systems, and elucidation of biosynthetic pathways. Involves extensive reading in the primary literature. (3 hrs lect)

Chem 4352s. Synthesis. (Sci; 3 cr; prereq 2302; offered even-numbered yrs) Study of the preparation of biologically active molecules, emphasizing the application of transition metal chemistry to modern synthetic methods. (3 hrs lect)

Chem 4533. Synthesis Laboratory. (1 cr; prereq 4352 or #; offered May session) Modern organometallic synthetic methods applied to the preparation of small organic molecules. Preparation, purification, analysis, and identification of synthetic products. Scientific record-keeping and literature searching. (3 hrs lab)

Chem 4551f. Theoretical Chemistry. (Sci; 3 cr; prereq 3502 or #; offered when feasible) Quantum theory of molecules, Statistical thermodynamics; Gibbsian ensembles; applications. (3 hrs lect)

Chem 4552s. Molecular Spectroscopy. (Sci; 3 cr; prereq 2311, 3101 or #; offered even-numbered yrs) Interaction of molecules and electromagnetic radiation. Spectroscopic determination of molecular structure. Operation of spectrometers and spectrophotometers. (3 hrs lect)

Chem 4751. Advanced Inorganic Chemistry. (Sci; 3 cr; prereq 3701 or #) Structure and reactions of coordination compounds, inorganic cages and clusters, lanthanide and actinide series. (3 hrs lect)

Chem 4901f,s. Chemistry Seminar II. (0 cr; prereq 3901; required of all chem majors; may not count toward chem minor) Continuation of Chemistry Seminar I.

Chem 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Computer Science (CSci)

This discipline is in the Division of Science and Mathematics. 

Objectives — The computer science curriculum is designed to provide students with a strong foundation in the diverse and rapidly changing field of computing. The science of computing is emphasized with a focus on fundamental principles and the formal underpinnings of the field. Students are encouraged to use and supplement their formal education through a variety of research opportunities, participation in discipline colloquia and student/professional organizations, and pursuit of internship experiences or international studies opportunities. Students who successfully complete the major are qualified to enter the computing field as professionals or to pursue graduate studies.

Major Requirements

CSci 1301-1302 — Problem Solving and Algorithm Development I-II
CSci 2101 — Data Structures
CSci 2901 — Seminar I
CSci 3401 — Models of Computing Systems
CSci 3501 — Algorithms and Computability
CSci 3601 — Software Design and Development
CSci 4901 — Seminar II or equivalent experience approved by the discipline.

10 credits from CSci 44xx, 45xx, and 46xx with a minimum of 4 credits in two of the areas and 2 credits in the third area (see [www.morris.umn.edu/academic/csci/courses.php] for information on specific offerings in these areas)

12 credits from Math or Stat numbered 1101 and above (not to include Stat 1601 or Math 2211)

8 credits from Biol, Chem, Geol, or Phys

No more than two courses with a grade of D, offset by an equivalent number of credits of A or B grades, may be used to meet the requirements for a computer science major.

Minor Requirements

CSci 1301-1302 — Problem Solving and Algorithm Development I-II
CSci 2101 — Data Structures

Two courses chosen from:

CSci 3401 — Models of Computing Systems
CSci 3501 — Algorithms and Computability
CSci 3601 — Software Design and Development

4 credits from Math or Stat numbered 1020 and above (not to include Math 2211)

No more than two courses with a grade of D, offset by an equivalent number of credits of A or B grades, may be used to meet the requirements for a computer science minor.

Course Descriptions

CSci 1001. Introduction to the Computing World. (M/SR; 2 cr; no elective cr for CSci majors or minors) Basic hardware and software concepts, elementary data representation, problem solving techniques, algorithm development, and current information processing and network applications.
CSci 1211. Introduction to Problem Solving with Java. (M/SR; 4 cr; prereq Math 1101; offered when feasible)
Problem solving and algorithm design using object-oriented programming techniques. Introduction to the Java programming language and its use in implementing algorithms to solve scientific problems. Testing and debugging of software with emphasis on the complexity of modern software systems.

CSci 1301. Problem Solving and Algorithm Development I. (M/SR; 4 cr)
Introduction to different problem solving approaches, major programming paradigms, hardware, software, and data representation. Study of the functional programming paradigm, concentrating on recursion and inductively-defined data structures. Simple searching and sorting algorithms.

CSci 1302. Problem Solving and Algorithm Development II. (M/SR; 4 cr)
Basic proof techniques, propositional and predicate logic, induction and invariants, program correctness proofs, simple Big-Oh analysis of algorithms, set theory, introductory graph theory, matrices, and recurrence relations.

CSci 2101. Data Structures. (M/SR; 5 cr; prereq 1301)
Introduction to data types, including stacks, queues, trees, and graphs; implementation of abstract data types, using object-oriented techniques and reusable libraries. (4 hrs lect, 2 hrs lab)

CSci 2901. Seminar I. (1 cr; prereq 1301, 1302; S-N only)
Familiarizes students with literature in the field, focusing on ethical issues in computing. Discussion and group work. Students analyze various articles or similarly published works, synthesize their contents, make formal presentations, and attend and evaluate the presentations of their peers.

CSci 3401s. Models of Computing Systems. (M/SR; 5 cr; prereq 1302, 2101)
Basics of computing systems, models of networks and operating systems. Discussion of deadlock, scheduling, protection and security, data management, inter-computer communication, the OSI network model, and how the three lower layers are instantiated in TCP/IP. (4 hrs lect, 2 hrs lab)

CSci 3501f. Algorithms and Computability. (M/SR; 5 cr; prereq 1302, 2101)
Models of computation (Turing machines, lambda calculus, deterministic and non-deterministic machines); approaches to the design of algorithms, determining correctness and efficiency of algorithms; complexity classes, NP-completeness, approximation algorithms. (4 hrs lect, 2 hrs lab)

CSci 3511. Introduction to Bioinformatics. (M/SR; 4 cr; prereq 2101, Biol 2111, Chem 1102; offered when feasible)
Introduction to computational problems arising from molecular biology and genetics. Development and application of algorithmic solutions to these problems. Topics may include sequence analysis, pairwise and multiple sequence alignment, construction of phylogenetic histories, and protein structure and folding. Introduction to online genomics databases.

CSci 3601. Software Design and Development. (M/SR; 5 cr; prereq 1302, 2101)
Design and implementation of medium- and large-scale software systems. Principles of organizing and managing such designs and implementations throughout their lifetime. Designing for modularity and software reuse; use of libraries. Dynamics of working in groups. Group lab work on a substantial software project. (4 hrs lect, 2 hrs lab)

Systems: Courses numbered 44xx cover current developments in computing systems, such as computer networks, operating systems, system programming, computer architecture, parallel and distributed architectures, databases, artificial intelligence, graphics, approximation algorithms, artificial life, and computer music.

CSci 4402. Systems: TCP/IP Networks. (M/SR; 2 cr; prereq 2901, 3401 or #; offered when feasible)
Study of the characteristics of TCP/IP networks. Discussion and implementation of applications usually associated with TCP/IP networks.

CSci 4404. Systems: Parallel Systems. (M/SR; 2 cr; prereq 2901, 3401 or #; offered when feasible)
Models of parallel computation, common algorithms used for parallel and/or distributed computations such as parallel prefix, pointer jumping, various divide-and-conquer methods, image processing, and parallel graph algorithms. Programs designed using PVM, the Parallel Virtual Machine software developed at Oakridge National Laboratories in Tennessee.

CSci 4406. Systems: Wireless Data Networks. (M/SR; 2 cr; prereq 2901, 3401 or #; offered when feasible)

CSci 4451. Systems: Distributed Systems. (M/SR; 4 cr; prereq 3401; offered when feasible)
An introduction to distributed systems/computation. Topics include processes and threads, physical vs. logical clocks, interprocess communication and coordination, election algorithms, synchronization, distributed task scheduling, distributed shared memory, distributed file systems, and replicated data management.

CSci 4452. Systems: Computer Networks. (M/SR; 4 cr; prereq 3401; offered when feasible)

CSci 4453. Systems: Database Systems. (M/SR; 4 cr; prereq 3401; offered when feasible)
Introduction to relational, object-relational, and object database systems. Topics include the relational model, SQL and related query languages, JDBC and database applications programming, database design, query processing and optimization, indexing techniques, and transaction management.
CSci 4454. Systems: Robotics. (M/SR; 4 cr; prereq 3401 or #; offered when feasible)
An introduction to robotic systems including robot mechanics, algorithms in robotics, and sensor interfaces for autonomous mobile and arm robots. Concepts of kinematics and coordinate systems, real-time programming, embedded systems, pattern recognition algorithms, simulation environments, and subsumption architecture within the context of robotics applications are explored.

Theory: Courses numbered 45xx cover current developments in computing theory, such as analysis of algorithms, theory of computation, distributed algorithms, parallel algorithms, approximation algorithms, graph theory, computational geometry, and NP-completeness.

CSci 4501. Theory: 3D Modeling. (M/SR; 2 cr; prereq 2901, 3501 or #; offered when feasible) Introduction to three-dimensional modeling in computer graphics. Topics include 3-D geometry, affine transformations, polygonal representation, constructive solid geometry, B-splines, viewing systems, clipping, hidden surface removal, Phong shading, and ray tracing.

CSci 4503. Theory: An Introduction to Intelligent Agent Theory. (M/SR; 2 cr; prereq 2901, 3501 or #; offered when feasible) Survey of this new field of Artificial Intelligence. The focus is on software agents that can perform tasks such as learning a user’s preferences, organizing information, or making decisions for a user. Some background topics in Artificial Intelligence may be covered. The class includes a project using Java.

CSci 4507. Theory: Data Compression. (M/SR; 2 cr; prereq 2901, 3501 or #; offered when feasible) Introduction to data compression (including lossy and lossless compression techniques), wavelets, differential encoding techniques (including pulse code and delta modulation), and subband coding with applications to speech, audio, and images. Compression standards such as the CCITT international standard and MPEG audio compression standard.

CSci 4552. Theory: Advanced Algorithms. (M/SR; 4 cr; prereq 3501; offered when feasible) Techniques for designing and analyzing efficient algorithms to solve a variety of practical problems. Some algorithmic techniques include dynamic programming, greedy methods, and amortized analysis. Other topics include graph algorithms, string matching, approximation algorithms, and NP-Completeness.

CSci 4554. Theory: Cryptography. (M/SR; 4 cr; prereq 3501; offered when feasible) Theory and applications of cryptography. Overview of necessary mathematical concepts. Discussion of algorithms and protocols including public and private key encryption, authentication, and zero knowledge proofs.

CSci 4555. Theory: Neural Networks and Machine Learning. (M/SR; 4 cr; prereq 3501; offered when feasible) Study of the underlying theory, structure, and behavior of neural networks and of how neural networks compare to and can be used to supplement other methods of machine learning. Methods such as decision tree learning, inductive learning, reinforcement learning, supervised learning, and explanation-based learning are examined. Analysis of the strengths and weaknesses of various approaches to machine learning. Includes an implementation project.

Programming and Languages: Courses numbered 46xx cover current developments in programming languages, such as software engineering, requirements analysis, specification, software architectures, formal methods, program derivation, testing, parallel and distributed languages, parsing, optimization techniques, and compiling.

CSci 4602. Programming and Languages: Embedded Systems. (M/SR; 2 cr; prereq 2901, 3601 or #; offered when feasible) An overview of embedded computing systems. Topics include discussion of the capabilities and limitations of the hardware, embedded operating systems real-time constraints, design issues in building software for embedded systems, and methods to evaluate design tradeoffs between different technology choices.

CSci 4605. Programming and Languages: Refactoring. (M/SR; 2 cr; prereq 2901, 3601 or #; offered when feasible) Introduction to methodologies for the long-term development and maintenance of software systems. Discussion of methods of fixing errors and extending functionality in a controlled manner that builds on and improves the underlying system design, as well as tools for regression testing to help catch introduced errors. There is a significant programming component as well as change documentation and classroom presentations.

CSci 4606. Programming and Languages: Client/Server Programming. (M/SR; 2 cr; prereq 2901, 3601 or #; offered when feasible) Survey of issues and technologies related to the development of client/server systems. Tiered architectures, client-side vs. server-side programming, and the role of middleware (e.g. CORBA), database systems, and the World-Wide-Web/Internet in client/server systems.

CSci 4651. Programming and Languages: Programming Languages. (M/SR; 4 cr; prereq 3601; offered when feasible) History of programming languages, formal specification of syntax and semantics of programming languages from a variety of paradigms (procedural functional, logic-programming, object-oriented, and parallel paradigms), modern language features.

CSci 4652. Programming and Languages: Compilers. (M/SR; 4 cr; prereq 3601; offered when feasible) Program translations from a variety of paradigms. Lexical analysis and parsing techniques, intermediate representations, type checking, code generation, error detection and recovery, optimization.
Dance (Dnce)

This discipline is in the Division of the Humanities. The program explores dance as a performance art form and cultural expression of various societies throughout the world. It is enhanced by performance opportunities, guest choreographers, conference participation, and other activities sponsored by the UMM Dance Ensemble student organization.

Objectives — The dance program helps students develop a working knowledge and a conceptual understanding of dance as an art form. Students are introduced to the cultural roots of dance, the traditions of training for dance performance, and the skills necessary for dance performance. Students interested in pursuing dance may create an area of concentration or emphasis by combining these courses with courses from other disciplines.

Teacher Preparation Requirements

Students seeking teaching licensure in dance and theatre arts K-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Dnce 1321. CE: Introduction to Modern Dance and Ballet. (ArtP; 1 cr; repeatable to 2 cr; S-N only)

Practice in the fundamental movement vocabulary and steps of dance with an emphasis on traditional ballet techniques and modern dance interpretations. Exploration of body awareness through improvisational exercises and compositional studies. Discussion of the cultural origins of style in dance and the role of dance in contemporary life.

Dnce 1322. CE: Introduction to Jazz and Modern Dance. (ArtP; 1 cr; repeatable to 2 cr; S-N only)

Fundamental movement vocabulary and steps of dance from the unique perspective of American Jazz combined with modern dance. Explores body awareness through improvisational exercises and composed studies. Discussion of dance in contemporary life, individual style, and the cultural origins of jazz music and movement.

Dnce 1323. CE: Introduction to Tap Dance. (ArtP; 1 cr; repeatable to 2 cr; S-N only)

Practice in footwork and introduction to vocabulary that forms the basis of the percussive dance form. Discussion of origins of the dance form, different styles and relationship to musical structures. Practice in improvisational tap skills.

Dnce 1331. CE: Intermediate Ballet. (ArtP; 1 cr; repeatable to 2 cr; prereq 1321 or WSS 1321 or #)

Builds upon basic dance vocabulary towards mastery of ballet technique. Exercises are drawn from a combination of classical and modern approaches. Emphasis on advancing technical skill through conditioning and performance of ballet steps and combinations. Includes performance component.

Dnce 1332. CE: Intermediate Jazz Dance. (ArtP; 1 cr; repeatable to 2 cr; prereq 1322 or WSS 1331 or #)

Builds upon basic dance vocabulary with emphasis on the movement vocabulary of jazz dance. Emphasis on African dance roots and stylistic variations in contemporary jazz dance forms. Includes performance component.

Dnce 1333. CE: Intermediate Modern Dance. (ArtP; 2 cr; repeatable to 4 cr; prereq 1321 or 1322 or WSS 1321 or WSS 1331 or #)

Builds upon basic dance vocabulary with movement exercises drawn from traditional schools of modern dance technique (Wigman/Holm, Graham, Humphrey/Limon, Horton, Cunningham). Emphasis on advancing technical skills through conditioning, improvisation, and movement combinations. Includes performance component.

Dnce 2301. CE: Dance Production. (ArtP; 2 cr; prereq #)


Dnce 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

A learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum such as dance history, choreography and directing, dance education for children.
Economics (Econ)

This discipline is in the Division of the Social Sciences.

Objectives — The economics curriculum is designed to ensure that students:

a) understand the nature and functioning of the market system
b) are able to define criteria for assessing efficiency in the provision of goods and services
c) investigate and assess the operation of economic institutions
d) are able to evaluate alternative policies intended to enhance economic outcomes
e) develop competence in quantitative methods and computing methods
f) are able to conceptualize and analyze problems using the tools of economic theory, and communicate the results
g) are competent in oral and written communication
h) are adequately prepared for graduate or professional school.

Major Requirements

Econ 1111 — Principles of Microeconomics
Econ 1112 — Principles of Macroeconomics
Econ 3201 — Microeconomic Theory
Econ 3202 — Macroeconomic Theory
Econ 3501 — Introduction to Econometrics
Econ 4501 — Senior Research Seminar in Economics and Management
Math 1101 — Calculus I
Stat 1601 — Introduction to Statistics
or Stat 2601 — Statistical Methods
14 additional credits in Econ courses at 3xxx and above

No more than 4 credits from each of the following can be applied to the major.
Econ x993 — Directed Study
Econ 4501 — Senior Research Seminar in Economics and Management

Grades of D in Econ 1111-1112, Math 1101, and Stat 1601 may not be used to meet minor requirements. Required courses may not be taken S-N unless offered S-N only.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Econ 1111f,s. Principles of Microeconomics. (SS; 4 cr; prereq high school algebra or #)

Econ x993 — Directed Study
Econ 4501 — Senior Research Seminar in Economics and Management

Grades of D in Econ 1111-1112, Math 1101, and Stat 1601 may not be used to meet major requirements. Up to 4 credits of other economics coursework with a grade of D may be used to meet major requirements if offset by an equivalent number of credits of A or B. Required courses may not be taken S-N unless offered S-N only.

Students should complete the following during their first two years:

Econ 1111 — Principles of Microeconomics
Econ 1112 — Principles of Macroeconomics
Math 1101 — Calculus I
Stat 1601 — Introduction to Statistics

or Stat 2601 — Statistical Methods

Students should complete the following before their senior year:
Econ 3201 — Microeconomic Theory
Econ 3202 — Macroeconomic Theory
Econ 3501 — Introduction to Econometrics

Minor Requirements

Econ 1111 — Principles of Microeconomics
Econ 1112 — Principles of Macroeconomics
Econ 3201 — Microeconomic Theory
Econ 3202 — Macroeconomic Theory
Math 1101 — Calculus I
Stat 1601 — Introduction to Statistics
or Stat 2601 — Statistical Methods
6 additional credits in Econ courses at 3xxx or above

No more than 4 credits from each of the following can be applied to the minor.
Econ x993 — Directed Study
Econ 4501 — Senior Research Seminar in Economics and Management

Grades of D in Econ 1111-1112, Math 1101, and Stat 1601 may not be used to meet minor requirements. Required courses may not be taken S-N unless offered S-N only.

Econ 1951f,s. Seminar for Social Science Majors. (1 cr; prereq high school algebra or #)
Familiarization with various journals, periodicals, and sources of statistical information that deal with current developments in economics.

Econ 3003s. Political Economy I. (SS; 2 cr; prereq 1111, 1112 or #)
The methodology, basic structure, and historical evolution of the modern economy, including the nature and mode of regulation of capitalist economics.
Econ 3004s. Political Economy II. (SS; 2 cr; prereq 3003 or #)
The dynamics and transformation of contemporary capitalism, including the introductory study of the nature of accumulation process, economic crisis, and hegemonic tendency of the economy over all other aspects of social life in contemporary society.

Econ 3005s. Experimental and Behavioral Economics I. (SS; 2 cr; prereq 1111, 1112, Math 1101 or #; not offered 2006-07)
Introduction to economic experiments as controlled tests of microeconomic and game-theoretic behavioral predictions. In-class economic experiments, elements of non-cooperative game theory, results of market and social preference experiments, and empirical applications.

Econ 3006s. Experimental and Behavioral Economics II. (SS; 2 cr; prereq 3005 or #; not offered 2006-07)
Advanced concepts and applications in experimental and behavioral economics.

Econ 3007f. Environmental and Natural Resource Economics I. (Envir; 2 cr; prereq 1111, 1112 or #)
An overview of approaches to “brown” pollution and “green” sustainability issues in environmental and natural resources economics. Topics include tradable pollution permits, environmental taxes, deregulation, and others.

Econ 3008f. Environmental and Natural Resource Economics II. (Envir; 2 cr; prereq 3007 or #)
A hands-on, project-based course applying the concepts of Econ 3007 to a local environmental or natural resources challenge.

Econ 3113f. Money, Banking and Financial Markets. (SS; 4 cr; prereq 1111, 1112 or #)
Nature and function of money; role of commercial banks and other financial institutions; structure and function of Federal Reserve system; monetary policies for stabilization and growth; and a survey and synthesis of major theories on the value of money.

Econ 3121s. Public Economics I. (SS; 2 cr; prereq 1111, 1112 or #; offered when feasible)
Analysis of the economics of public expenditures.

Econ 3122s. Public Economics II. (SS; 2 cr; prereq 1111, 1112 or #; offered when feasible)
Analysis of the economics of taxation.

Econ 3131s. Comparative Economic Systems. (IP; 2 cr; prereq 1111, 1112 or #; not offered 2005-06)
Comparison of the theory and functioning of the major economic systems of the world; economic reform in capitalist and socialist economies.

Econ 3141f. Economic Development and Growth I. (IP; 2 cr; prereq 1111, 1112 or #)
Nature and meaning of economic development. Theories of economic growth and the historical experience of newly developed countries. General development problems facing developing countries.

Econ 3142f. Economic Development and Growth II. (IP; 2 cr; prereq 3141 or #)
Current development problems and policies in developing countries; the possibilities and prospects for future development. Case studies examining the development progress of these countries.

Econ 3201f. Microeconomic Theory. (SS; 4 cr; prereq 1111, Math 1101 or #)
Analytical approach to decision making by individual economic units in the output and input markets, under perfect and imperfect market conditions. Externalities and role of government.

Econ 3202s. Macroeconomic Theory. (SS; 4 cr; prereq 1112, Math 1101 or #)
The theory of national income determination; inflation, unemployment, and economic growth in alternative models of the national economy.

Econ 3211f. History of Economic Thought I. (Hist; 2 cr; prereq 1111, 1112)
The origin and development of economic thought from Mercantilism through the classical school. Among others, Adam Smith and Karl Marx are featured. Nature of economics as a social science through the study of its historical development.

Econ 3212f. History of Economic Thought II. (Hist; 2 cr; prereq 3211 or #)
The development of economic thought from Marx and the end of the classical school, through the development of more modern approaches. In addition to the demise of classical thought, a selection from the thinkers who contributed to the foundations of modern microeconomics and/or macroeconomics is covered. Nature of economics as a social science, through the study of its historical development.

Econ 3501s. Introduction to Econometrics. (M/SR; 4 cr; prereq 3201 or 3202, Stat 1601)
Designing empirical models in economics. Simple and multiple regression analysis. Violations of classical assumptions in regression analysis. Logit and probit models; simultaneous equation models and lag models. Emphasis on application techniques to economic issues.

Econ 4101f. Labor Economics I. (HDiv; 2 cr; prereq 3201 or #)
Wage and employment determination. Distribution of earnings and earnings inequality by race and sex. Labor supply applications.

Econ 4102f. Labor Economics II. (SS; 2 cr; prereq 3201 or #)
Functioning and performance of the labor market. Heterodox explanations of labor market behavior. Labor demand applications.

Econ 4111. Mathematical Economics I. (M/SR; 2 cr; prereq 3201, 3202 or #; offered when feasible)
Application of mathematical methods to economic analysis. Mathematical formulations and solution of optimizing models pertaining to households and firms and of adjustments to disturbances.

Econ 4112. Mathematical Economics II. (M/SR; 2 cr; prereq 3201, 3202 or #; offered when feasible)
Topics include linear modeling, input-output analysis and linear programming, efficiency and exchange, comparative static analysis, and dynamic microeconomic and macroeconomic models.

Econ 4121s. International Trade Theory. (SS; 2 cr; prereq 3201 or #)
Overview of why trade occurs, pattern of trade and international factor movement. Effect of trade and trade policy on the economy. Current topics in trade theory.

Econ 4131s. International Finance. (SS; 2 cr; prereq 3202 or #)
Foreign exchange markets; theories of exchange rate determination; fixed vs. flexible rate systems; theories of balance of payments adjustments; international quantity of money theory; international reserves; international monetary system (past, present, and future); internal and external balance, international economic policy coordination, international debt problem; effect of international sector on domestic growth and stability.
Division Structure and Course Descriptions

Econ 4501. Senior Research Seminar in Economics and Management. (SS; 2 cr; repeatable to 4 cr; prereq sr or 3501 or #; full year course begins fall sem)
Guided research sessions familiarize students with literature in the field. Students are required to make a formal presentation on their research topic and attend presentations by their peers.

Econ 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Education Programs
(See Education [Ed]; Education, Elementary [ElEd]; Education, Secondary [SeEd]; and Wellness and Sport Science [WSS].)
UMM offers all students the opportunity to study education and its role in society. Courses with the “Ed” designator meet general education requirements, and enrollment in these courses is open and not limited to students pursuing teaching licensure.
The Division of Education offers a major and teaching licensure in elementary education (K–6) with specialty licensures in preprimary (age 3–grade 3); and middle level (grade 5–8) communication arts and literature, mathematics, science, and social studies; and K–12 world languages. Licensure of secondary school teachers is offered in chemistry (9–12), communication arts and literature (5–12), dance and theatre arts (K–12), earth and space science (9–12), French (K–12), general science (5–8), German (K–12), instrumental music (K–12), life science (9–12), mathematics (5–12), physics (9–12), social studies (5–12), Spanish (K–12), visual arts (K–12), and vocal music (K–12). Students may elect to complete coursework leading to endorsement for head varsity coaches in Minnesota.
Teacher education at UMM is part of the lifelong development of an effective teacher that includes the study of liberal arts disciplines and pedagogy, teaching, and other life experiences. UMM’s teacher education program is based on a belief that a successful teacher is one who reflects on teaching and makes instructional decisions that ensure student learning and reflection.
Teacher education at UMM uses personalized instruction and offers opportunities for regional and international student teaching. Teacher candidates are prepared to employ human, technological, and other resources in the effective instruction of diverse populations of learners. The program introduces prospective teachers to the teaching profession and prepares them to demonstrate:

1. **Knowledge** of themselves and of learners; liberal arts disciplines; diverse cultures, social organizations, and societies; human growth and development; communication and language; problem solving; and effective teaching and learning;
2. **Skill** in all aspects of teaching including setting goals and objectives; selecting appropriate content, activities, and materials; implementing effective lessons; assessing student learning; and evaluating oneself with the goal of continuous improvement;
3. **Dispositions** associated with effective teaching, including enthusiasm and openness; efficacy; equity; and ethics and collaboration;
4. **Leadership** when addressing educational issues.

Admission requirements must be met and admission granted before students can enroll in courses in either the elementary or secondary teacher education programs. These admission requirements are set by UMM and the state of Minnesota. They are described under Admission to the Major in the Education, Elementary (ElEd) section and Admission to the Program in the Education, Secondary (SeEd) section of this catalog.

**Education (Ed)**
This discipline is in the Division of Education. It is designed to meet general education requirements and is not limited to students pursuing teaching licensure.

**Objectives** — These courses are designed to offer students the opportunity to study education and its role in society.

**Course Descriptions**
**Ed 1051s. Comparative Education.** (IP; 4 cr)
Critical thinking abilities and insight into other cultures developed through study of education in selected countries and the United States.

**Ed 2101f,s. Foundations and Issues in Education.** (1 cr; coreq 2111)
History, philosophy, and purposes of American education; teaching as a profession; issues and trends in education today; career opportunity and certification requirements in education.

**Ed 2111f,s. Tutor-Aide Practicum.** (1 cr; coreq 2101; S-N only)
Students complete 30 hours of preprofessional field experience in the schools.

**Ed 2201. Perspectives on Young Adult Literature: Schooling, Society, and Culture.** (Hum; 4 cr)
Exposure to multiple genres of young adult literature and brief introduction to various types of response to literature. Special emphasis on multicultural literature, the role of literature in forming moral and cultural values, using literature in the grade 5-12 classroom, and reader response theory and pedagogy. Students read, respond to, select, and evaluate young adult literature.
Continuing Education Courses

**Ed 3101f. Ethics and Decision Making in Education I (E/CR; 4 cr)**
Study of educational decision making in different settings through analysis and development of case studies, seminar discussion, and independent research, including interviews with decision makers and participation in meetings of policy-making agencies.

**Ed 3102s. Ethics and Decision Making in Education II. (1-4 cr; prereq 3101)**
Continued in-depth study of ethics and decision making in education.

**Ed 4101s. Issues and Current Trends in Literacy and Language Education. (Hum; 4 cr)**
Study of themes, issues, and current trends surrounding literacy education including historical foundations of current reading practices, changing definitions of literacy, ideologies that influence understanding and implementation of reading practices, and consideration of complexities of addressing societal literacy concerns.

**Ed 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)**

**Education, Elementary (ElEd)**

This discipline is in the Division of Education. A separate admissions process must be completed and admission granted before students can enroll in this program.

The elementary education major leads to Minnesota licensure as a teacher of grades K–6. Students obtaining a K–6 license must also be licensed in a specialty area. The six areas offered at UMM are 1) preprimary, 2) middle level communication arts and literature, 3) middle level science, 4) middle level social studies, and 6) world languages K–8.

**Objectives**—Coursework in elementary education is designed to meet standards of effective practice required for licensure and provide prospective teachers with opportunities to understand central concepts, tools of inquiry, and structures of disciplines taught in the elementary school; understand children and adolescent development theory, individual and group motivation and diversity among learners; create instructional opportunities adapted to learners of diverse cultural backgrounds and abilities; use instructional strategies that reflect personal knowledge of effective verbal, nonverbal, and media communication techniques; encourage development of critical thinking, problem solving, and performance skills; understand and use formal and informal methods of student assessment; and collaborate with parents/guardians, families, school colleagues, and the community in an ethical manner.

Students pursuing Minnesota teaching licensure at the elementary K–6 level and specialty areas must have completed licensure requirements in the elementary teacher education program, and state and federally mandated examinations for new teachers. A minimum GPA of 2.50 is required overall, in licensure area(s), and in education courses. All courses required for teaching licensure in elementary education (discipline, professional education, or other courses) must be completed with a grade of C- or higher. Required courses may not be taken S-N unless offered S-N only.

**Admission to the Major**

During fall semester of the sophomore year, students attend a meeting to begin the application process. Applications must be submitted to the Elementary Education Admissions Committee by the end of the first week of spring semester for entry to
the program fall semester of the junior year. Enrollment in the major is limited. The decision to admit is made during spring semester, before fall registration. The elementary education course sequence begins in fall semester. Students transferring from another school must be admitted to UMM before admission to the elementary major can be offered. It is recommended that these students seek academic planning advice from a member of the elementary education faculty before the semester in which admission to the program is sought.

Requirements for admission include the following:

1. Successful completion (grade of C- or higher) of Psy 1061—Introduction to the Development of the Child and Adolescent (Psy 1051 is a prereq), Ed 2101—Foundations and Issues in Education, and Ed 2111—Tutor-Aide Practicum.

For students desiring more in-depth alternatives, Psy 3401—Developmental Psychology I: Child Psychology and Psy 3402—Developmental Psychology II: Adolescence may be substituted for Psy 1061—Introduction to the Development of the Child and Adolescent.

2. Completion of the Praxis I: Pre-Professional Skills Test (PPST).

3. A minimum GPA of 2.50 overall and in the elementary education major. No grade of D will be accepted in licensure or education courses.

4. Approximately 60 credits completed by the end of the sophomore year.

5. Approval of the faculty based on an interview, recommendations, assessment of prior experience (especially with children and other cultures), and progress toward a degree.

6. Student must be admitted to UMM prior to program admission.

**Student Teaching Requirements**

1. Successful completion of the following EEd courses in the major:
   - EEd 3101, 3102, 3103, 3111, 4101, 4102, 4103, 4104, 4107, 4111, and 4112

   *Students must also complete either:*
   - EEd 3211—Practicum II: Field Experience in a Preprimary Setting
   - EEd 3201—Preprimary Theory and Pedagogy

2. A minimum GPA of 2.50 overall and in the elementary education major; no grade of D will be accepted in licensure or education courses.

3. Satisfactory completion of tutor aide and practicum experiences.

4. Speech: any 1xxx or above (Spch 1052 recommended) or exemption granted by petition to the Division of Education based on satisfactory completion of high school speech course or demonstrated ability.

5. Approval of teacher education faculty.

**Major Requirements**

*Students must complete:*

- Psy 1061—Introduction to the Development of the Child and Adolescent
- Ed 2101—Foundations and Issues in Education
- Ed 2111—Tutor-Aide Practicum
- EEd 3101—Teaching and Learning Strategies
- EEd 3102—Literacy and Language Instruction in the Elementary School
- EEd 3103—Mathematics in the Elementary School
- EEd 3111—Practicum I: Field Experience in the Elementary Classroom
- EEd 3201—Preprimary Theory and Pedagogy
- EEd 3202—Middle Level Theory
- EEd 3211—Practicum II: Field Experience in a Preprimary Setting
- EEd 3212—Practicum II: Field Experience in a Middle Level Setting
- EEd 4101—Strategies for Inclusive Schooling
- EEd 4102—Social Studies in the Elementary School
- EEd 4103—Science in the Elementary School
- EEd 4104—Language Arts and Literature in the Elementary School
- EEd 4107—Health and Physical Education in the Elementary School
- EEd 4111—Practicum III: Beginning Student Teaching
- EEd 4112—Practicum IV: Experience in the Elementary School Classroom
- EEd 4201—Directed Student Teaching in Primary and Intermediate Grades or EEd 4204—Directed Student Teaching in International School at the Primary and Intermediate Level
- EEd 4901—The Teacher and Professional Development.

All courses required for a major in elementary education must be completed with a grade of C- or higher. Required courses may not be taken S-N unless offered S-N only.

**Elementary Licensure Requirements**

Students planning to teach in Minnesota elementary schools must meet the licensure requirements of the Minnesota Board of Teaching (BOT).

At the University of Minnesota, Morris, the following program is designed to meet the current BOT requirements. These licensure requirements are subject to change when the BOT implements new licensure rules.
1. All requirements for an elementary education major

2. Communication arts and literature: general education requirements for college writing and foreign language; speech any 1xxx or above (Spch 1052 recommended); additional English any 11xx or above (in addition to college writing) or literature course in foreign language (Engl 3021 recommended)

3. Statistics: Stat 1601, 2601, or 2611 and one mathematics course numbered 1xxx or above

4. Visual and performing arts: (two courses representing two different disciplines) studio art or art history (ArtS 1050 or 1070 or ArtH 1101 recommended), music (Mus 1041 or 1042 recommended), theatre (Th 1101 or 2111 recommended), or dance

5. Social studies: (two courses representing two different disciplines) anthropology (Anth 1111 recommended), economics (Econ 1101 recommended), political science (Pol 1201 recommended), history (Hist 1301 recommended), sociology (Soc 1101 recommended), geography (Geog 2001 recommended)

6. Science: (two courses representing two different disciplines, at least 1 with lab) physics, geology, biology, chemistry

7. Psy 1081—Drugs and Human Behavior

8. Successful completion of a cross-cultural field experience

9. A minimum GPA of 2.50 overall and in the elementary education major; no grade of D will be accepted in licensure or education courses

10. A positive recommendation from the discipline and Division of Education

11. Passing scores on Praxis I and Praxis II and any other state mandated exams for new teachers

**Note:** Students in elementary education must complete licensure requirements and apply for licensure within seven years from time of admission to the licensure program. After seven years, all education courses previously taken become void and must be retaken for licensure.

Required courses may not be taken S-N only. The minimum credits for a specialty area vary by area. Additional coursework, a minor, or a second major supportive of their chosen specialty licensure are required. Students seeking a non-education major or minor should consult the catalog for requirements in the area of interest.

**Requirements for Specialty Areas**

Students seeking K-6 licensure must also obtain a specialty area license. Each specialty area requires a minimum of 20 credits. The six areas and their requirements are listed below.

1. Preprimary education (age 3 to grade 3): Psy 1061; choose 3 additional courses from Psy 3111, Psy 3112, Psy 3302, Psy 3313, Psy 3401, Psy 3501, Soc 1101, Soc 3402 or Th 2111; EIEd 3201 —Preprimary Theory and Pedagogy; and EIEd 3211 —Practicum II: Field Experience in a Preprimary Setting

2. Middle level communication arts and literature (grades 5-8): any Spch course 1xxx or above; two Engl courses 11xx or above (not College Writing); one Engl course 2xxx or above (Engl 3021 recommended); EIEd 3202 —Middle Level Theory; EIEd 3212 —Practicum II: Field Experience in a Middle Level Setting; and EngE 4122 —Methods of Teaching Communication Arts and Literature in the Middle School

3. Middle level mathematics (grades 5-8): Stat 1601, 2601, or 2611; three additional math courses at the 1xxx or above; EIEd 3202 —Middle Level Theory; EIEd 3212 —Practicum II: Field Experience in a Middle Level Setting; and MthE 4122 —Methods of Teaching Mathematics in the Middle School

4. Middle level social studies (grades 5-8): Hist any 1xxx or above; Anth any 1xxx or above; two courses representing two different disciplines (Geog, Econ, Pol, or Soc); EIEd 3202 —Middle Level Theory; EIEd 3212 —Practicum II: Field Experience in a Middle Level Setting; and SScE 4122 —Methods of Teaching Social Studies in the Middle School

5. Middle level science (grades 5-8): Biol any 1xxx or above; Geol any 1xxx or above; Chem any 1xxx or above; Phys any 1xxx or above; EIEd 3202 —Middle Level Theory; EIEd 3212 —Practicum II: Field Experience in a Middle Level Setting; and SScE 4122 —Methods of Teaching Science in the Middle School

6. World Languages K-8: complete the language content requirements as listed in the secondary education license area requirements (French K-12, German K-12, or Spanish K-12); EIEd 3202 —Middle Level Theory; EIEd 3212 —Practicum II: Field Experience in a Middle Level Setting; and SScE 4122 —Methods of Teaching Foreign Language K-12; and SeEd 4202 —Directed Student Teaching in the Middle and Secondary School.

It is recommended that students complete additional coursework, a minor, or a second major supportive of their chosen specialty licensure area. Students seeking a non-education major or minor should consult the catalog for requirements in the area of interest.

**Course Descriptions**

**EIEd 3101f. Teaching and Learning Strategies.** (4 cr; prereq admission to the elementary teacher education program)

Elementary school teaching and learning. Planning for instruction, learning theory, multicultural education, classroom management, use of technology in the classroom.

**EIEd 3102f. Literacy and Language Instruction in the Elementary School.** (4 cr; prereq admission to elementary teacher education program)

Beginning and advanced reading instruction in the elementary grades. Includes study of theory, issues, literacy frameworks, assessment, materials, organization, and instructional strategies to scaffold children’s literacy development.
**Division Structure and Course Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ElEd 3103f</td>
<td>Mathematics in the Elementary School</td>
<td>3 cr</td>
<td>Prereq admission to the elementary teacher education program</td>
</tr>
<tr>
<td>ElEd 3107f</td>
<td>Health and Physical Education in the Elementary School</td>
<td>1 cr</td>
<td>Prereq 3101, 3102, 3103, 3111; S-N only</td>
</tr>
<tr>
<td>ElEd 3111f</td>
<td>Practicum I: Field Experience in the Elementary Classroom</td>
<td>1 cr</td>
<td>Prereq admission to the elementary teacher education program; S-N only</td>
</tr>
<tr>
<td>ElEd 3201s</td>
<td>Preprimary Theory and Pedagogy</td>
<td>3 cr</td>
<td>Prereq 3101, 3102, 3103, 3111</td>
</tr>
<tr>
<td>ElEd 3202s</td>
<td>Middle Level Theory</td>
<td>2 cr</td>
<td>Prereq 3101, 3102, 3103, 3111</td>
</tr>
<tr>
<td>ElEd 3211s</td>
<td>Practicum II: Field Experience in a Preprimary Setting</td>
<td>1 cr</td>
<td>Prereq 3101, 3102, 3103, 3111; S-N only</td>
</tr>
<tr>
<td>ElEd 3212s</td>
<td>Practicum II: Field Experience in a Middle Level Setting</td>
<td>1 cr</td>
<td>Prereq 3101, 3102, 3103, 3111; S-N only</td>
</tr>
<tr>
<td>ElEd 4101f</td>
<td>Strategies for Inclusive Schooling</td>
<td>2 cr</td>
<td>Prereq 3101, 3102, 3103, 3111</td>
</tr>
<tr>
<td>ElEd 4102f</td>
<td>Social Studies in the Elementary School</td>
<td>2 cr</td>
<td>Prereq 3101, 3102, 3103, 3111</td>
</tr>
<tr>
<td>ElEd 4103f</td>
<td>Science in the Elementary School</td>
<td>2 cr</td>
<td>Prereq 3101, 3102, 3103, 3111</td>
</tr>
<tr>
<td>ElEd 4104f</td>
<td>Language Arts and Literature in the Elementary School</td>
<td>3 cr</td>
<td>Prereq 3101, 3102, 3103, 3111</td>
</tr>
<tr>
<td>ElEd 4107f</td>
<td>Health and Physical Education in the Elementary School</td>
<td>1 cr</td>
<td>Prereq 3101, 3102, 3103, 3111</td>
</tr>
<tr>
<td>ElEd 4111f</td>
<td>Practicum III: Beginning Student Teaching</td>
<td>2 cr</td>
<td>Prereq 3101, 3102, 3103, 3111; S-N only</td>
</tr>
<tr>
<td>ElEd 4112f</td>
<td>Practicum IV: Experience in the Elementary School</td>
<td>1 cr</td>
<td>Prereq 3101, 3102, 3103, 3111; S-N only</td>
</tr>
<tr>
<td>ElEd 4201s</td>
<td>Directed Student Teaching in Primary and Intermediate Grades</td>
<td>1-16 cr</td>
<td>Prereq #; S-N only</td>
</tr>
<tr>
<td>ElEd 4202f,s</td>
<td>Directed Student Teaching in Primary and Intermediate Grades</td>
<td>1 cr</td>
<td>Prereq 4101, 4102, 4103, 4104, 4111, 4112; S-N only</td>
</tr>
<tr>
<td>ElEd 4204s</td>
<td>Directed Student Teaching in International School at the Primary and Intermediate Level</td>
<td>4 cr</td>
<td>A-F only</td>
</tr>
<tr>
<td>ElEd 4901s</td>
<td>The Teacher and Professional Development</td>
<td>2 cr</td>
<td>Prereq 4201 or 4204 or #</td>
</tr>
<tr>
<td>ElEd 4993f,s</td>
<td>Directed Study</td>
<td>1-5 cr</td>
<td>Repeatable to 10 cr; prereq approved directed study form</td>
</tr>
</tbody>
</table>

**Middle Education Methods Courses**

These courses focus on the objectives, curricula, special methods, materials, and evaluation appropriate for teaching the various subject matter areas in the middle school. Students are required to complete methods course(s) in their licensure area(s). Methods courses are taken in the spring semester of the first year in the program and must be successfully completed before student teaching in a specific field.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EngE 4122f,s</td>
<td>Methods of Teaching Communication Arts and Literature in the Middle School</td>
<td>1 cr</td>
<td>A-F only</td>
</tr>
<tr>
<td>LanE 4123f</td>
<td>Methods of Teaching Foreign Language K-12</td>
<td>4 cr</td>
<td>A-F only</td>
</tr>
<tr>
<td>MthE 4122f,s</td>
<td>Methods of Teaching Mathematics in the Middle School</td>
<td>1 cr</td>
<td>A-F only</td>
</tr>
<tr>
<td>SciE 4122f,s</td>
<td>Methods of Teaching Science in the Middle School</td>
<td>1 cr</td>
<td>A-F only</td>
</tr>
<tr>
<td>SScE 4122f,s</td>
<td>Methods of Teaching Social Science in the Middle School</td>
<td>1 cr</td>
<td>A-F only</td>
</tr>
</tbody>
</table>
**Education, Secondary (SeEd)**

This discipline is in the Division of Education. A separate admissions process must be completed and admission granted before students can enroll in this program.

The secondary education program leads to Minnesota licensure as a teacher in specified liberal arts disciplines.

**Objectives**—Coursework in secondary education is designed to meet standards of effective practice required for licensure and provide prospective teachers with opportunities to understand central concepts, tools of inquiry, and structures of disciplines taught in the middle and secondary school; understand adolescent development theory, individual and group motivation and diversity among learners; create instructional opportunities adapted to learners from diverse cultural backgrounds and with exceptionalities; use instructional strategies that reflect personal knowledge of effective verbal and nonverbal communication techniques; encourage development of critical thinking, problem solving, and performance skills; understand and use formal and informal methods of student assessment; plan and manage instruction; engage in reflection and self-assessment; and collaborate with parents/guardians, families, school colleagues, and the community in an ethical manner.

To obtain a teaching license, an individual must have a major, a bachelor’s degree, and have completed licensure requirements in the area(s) in which licensure is sought. UMM is approved to recommend teaching licensure in the following fields: chemistry (9–12), communication arts and literature (5–12), dance and theatre arts (K–12), earth and space science (9–12), French (K–12), general science (5–8), German (K–12), instrumental music (K–12), life science (9–12), mathematics (5–12), physics (9–12), social studies (5–12), Spanish (K–12), visual arts (K–12), and vocal music (K–12).

Students planning to seek Minnesota teaching licensure at the secondary school level must complete licensure requirements in the discipline(s) of the subject(s) they intend to teach, the secondary teacher education program, and state and federally mandated examinations for new teachers. A minimum GPA of 2.50 is required overall, in licensure area(s), and in education courses. All courses required for teaching licensure in secondary education (discipline, professional education, or other courses) must be completed with a grade of C- or higher. Required courses may not be taken S-N unless offered S-N only.

**Licensure Area Requirements**

An equivalent honors course can be used to fulfill any of the following requirements.

**Chemistry 9-12**

Chem 1101—General Chemistry I
Chem 1102—General Chemistry II
Chem 2301—Organic Chemistry I
Chem 2302—Organic Chemistry II
Chem 2311—Organic Chemistry Lab I

*One of two:*

Chem 2312—Organic Chemistry Lab II
Chem 2321—Introduction to Research

Chem 3101—Analytical Chemistry
Chem 3501—Physical Chemistry I
Chem 3xxx or above, one course

*One of three:*

Chem 3901 and 4901—Chemistry Seminar I and II (on research)
Chem 2993 or 3993 or 4993—Directed Study in Research
Other research experience (i.e., UROP, internship) with discipline approval

Math 1101—Calculus I
Math 1102—Calculus II
Phys 1101—General Physics I
Phys 1102—General Physics II

**Communication Arts and Literature 5-12 (fulfills the requirements for an English major)**

Engl 1131—Introduction to Literature

*One of two:*

Engl 2201—British Literature Survey I
Engl 2202—British Literature Survey II

*One of two:*

Engl 2211—American Literature Survey I
Engl 2212—American Literature Survey II
Engl 3001—Advanced Expository Writing
Engl 3021—Grammar and Language
Engl 3159—Shakespeare
Engl 3301—U.S. Multicultural and Multiracial Literatures
Engl elective at 1xxx or above or Ed 2201

Spch 2071—Practices of Speech Communication
Spch 2101—Introduction to Theories of Speech Communication
Spch 4151—Argumentation: Theory and Practice

*One of three:*

Th 2111—Creative Drama with Children
Th 2211—Oral Interpretation
Th 2221—Readers’ Theatre (preferred)
Division Structure and Course Descriptions

**Dance and Theatre Arts K-12 With a Theatre Specialization**
- Th 1101 — The Theatre Experience: An Introduction
- Th 1111 — Fundamentals of Acting
- Th 1301 — Fundamentals of Design
- Th 2101 — Fundamentals of Directing
- Th 2211 — Oral Interpretation
- Th 2301 — Stagecraft

**Earth and Space Science 9-12**
- Chem 1101 — General Chemistry I
- Chem 1102 — General Chemistry II
- Geol 1101 — Physical Geology
- Geol 2151 — Historical Geology: Earth History and Changing Scientific Perspectives
- Geol 2101 — Mineralogy and Crystallography
- Geol 2111 — Igneous and Metamorphic Petrology
- Geol 2121 — Sedimentology and Stratigraphy

**French K-12**
- Fren 1001 — Beginning French I
- Fren 1002 — Beginning French II
- Fren 2001 — Intermediate French I
- Fren 2002 — Intermediate French II
- Fren 3001 — Conversation and Composition
- Fren 3011 — Reading and Analysis of Texts

**German K-12**
- Ger 1001 — Beginning German I
- Ger 1002 — Beginning German II
- Ger 2001 — Intermediate German I
- Ger 2002 — Intermediate German II
- Ger 2011 — German Conversation and Composition
- Ger 3011 — Readings in German
- Ger 3101 — Survey of German Literature and Culture I
- Ger 3102 — Survey of German Literature and Culture II

**General Science 5-8**
- Biol 2101 — Evolution of Biodiversity (Biol 1101 prereq is waived)
- Biol 2111 — Cell Biology
- Chem 1101 — General Chemistry I
- Chem 1102 — General Chemistry II
- Geol 1101 — Physical Geology

**Instruments Music K-12**
- Mus 0100 — Concert Attendance (7 enrollments min)
- Mus 1101 — Core Studies I: Music Theory I
- Mus 1102 — Core Studies I: Music Theory II
- Mus 1300 — Concert Band and/or 1340 — Orchestra (7 enrollments min)
- Mus 1401 — English, Italian, German, and French Diction for Singers
- Mus 2101 — Core Studies II: Music Theory III
- Mus 2102 — Core Studies II: Music Theory IV
- Mus 3101 — Core Studies III: Medieval, Renaissance, and Baroque Music
- Mus 3102 — Core Studies III: Classical, Romantic, and 20th Century Music
- Mus 3103 — Core Studies IV: Advanced Individual Performance Studies in wind, string, percussion, or keyboard (2-3 semesters)*
- Mus 3301 — Instrumental Techniques — Woodwind

A minimum of 8 additional credits from Fren courses at 3xxx or above

One cross-listed course taught in English (Fren 1302, 1303, 1304 or 1311) may be counted, provided that students complete written work for the class in French

Fren 4901 — Senior Seminar

*One of two:
- Phys 1091 — Principles of Physics I
- Phys 1101 — General Physics I

*One of two:
- Phys 1092 — Principles of Physics II
- Phys 1102 — General Physics II

*One of three:
- Ger 3201 — Periods: German Classicism
- Ger 3202 — Periods: German Romanticism
- Ger 3203 — Periods: German Modernism

Three Ger 3xxx elective courses (4 cr each)
Mus 3302—Instrumental Techniques—Brass and Percussion
Mus 3303—Instrumental Techniques—Strings
Mus 3304—Vocal Techniques
Mus 3311—Conducting Techniques
Mus 3321—Instrumental Conducting and Materials
Mus 4901—Senior Project
Piano Proficiency Test
Instrument Repair Clinic required for licensure
Secondary performance competence on another family (wind, string, or percussion)
* If jury exam is passed end of 4th semester: 4 cr Mus 1200-1223 and 3 cr of Mus 3200-3223; if jury exam is passed end of 5th semester: 5 cr Mus 1200-1223 and 2 cr of Mus 3200-3223

Life Science 9-12 (fulfills the requirements for a biology major)
Biol 1101—Freshman Seminar in Biological Principles
Biol 2101—Evolution of Biodiversity
Biol 2111—Cell Biology
Biol 3101—Genetics
Biol 3121—Molecular Biology
Biol 3131—Ecology
Biol 4000-4500 (8 cr min)
Biol 4901—Senior Seminar
Chem 1101—General Chemistry I
Chem 1102—General Chemistry II
Chem 2301—Organic Chemistry I
Chem 2302—Organic Chemistry II
Chem 2311—Organic Chemistry Lab I
One of two:
Math 1021—Survey of Calculus
Math 1101—Calculus I
One of two:
Stat 1601—Introduction to Statistics
Stat 2601—Statistical Methods
One of four:
Biol 4000-4500 (beyond 8 cr min above)
Geol 3111—Introduction to Invertebrate Paleontology
Psy 3201—Comparative Psychology
Psy 3211—Biological Psychology

Mathematics 5-12 (fulfills the requirements for a mathematics major)
Math 1101—Calculus I
Math 1102—Calculus II
Math 2101—Calculus III
Math 2111—Linear Algebra
Math 2211—History of Math
Math 2202—Mathematical Perspectives
Math 3211—Geometry
Math 3221—Analysis
Math 3231—Abstract Algebra
Math 3411—Discrete and Combinatorial Mathematics
Math 4901—Senior Seminar
Stat 2611—Mathematical Statistics
Students also are required to take a course with significant mathematical applications outside the mathematics discipline. This course must be approved by the mathematics discipline. Courses which meet this requirement are listed online at www.morris.umn.edu/academic/math/app-require.htm

Physics 9-12
Math 1101—Calculus I
Math 1102—Calculus II
Math 2101—Calculus III
Math 2401—Differential Equations
Phys 1101—General Physics I
Phys 1102—General Physics II
Phys 2101—Modern Physics
Phys 2201—Circuits and Electronic Devices
Phys 3101—Classical Mechanics
Phys 3301—Optics
One of two:
Chem 3501—Physical Chemistry I
Phys 3501—Statistical Physics
One of three:
Phys 4901—Senior Thesis (on research)
Phys 2993 or 3993 or 4993—Directed Studies in Research
Other research experience (e.g., UROP, internship) with discipline approval

Social Studies 5-12 (fulfills requirements for a social science major)
Anth 1111—Introductory Cultural Anthropology
Econ 1112—Principles of Macroeconomics
Econ 1951—Seminar for Social Studies Majors
Geog 2001—Problems in Geography
Hist 1301—Introduction to United States History
Stat 1601—Introduction to Statistics or equivalent
Pol 1201—American Government and Politics
Psy 1051—Introduction to Psychology
Soc 1101—Introductory Sociology
Area of focus requirement—An area of focus most often will be demonstrated by completing the minor in that discipline. Area of focus plans should be on file with the Social Sciences Division Office by the end of a student’s junior year. Individual plans can be devised, but the total number of introductory and upper level credits will be similar to that found among minors in the social sciences. No D grades will be accepted.

Spanish K-12 (fulfills requirements for a Spanish major)
Span 1001—Beginning Spanish I
Span 1002—Beginning Spanish II
Division Structure and Course Descriptions

Span 2001—Intermediate Spanish I
Span 2002—Intermediate Spanish II
Span 3001—Spanish Composition and Conversation I
Span 3002—Spanish Composition and Conversation II
Span 3101—Introduction to Hispanic Literature
Two 32xx courses
Two 35xx courses
Span 4001—Research Symposium

Visual Arts K-12
ArtH 1101—Principles of Art
ArtS 1050—Beginning Ceramics
ArtS 1101—Basic Studio Drawing
ArtS 1102—Basic Studio Drawing
ArtS 1103—Basic Studio 2-D Design
ArtS 1104—Basic Studio 3-D Design
ArtS 1105—Basic Studio Discussion
ArtS 1106—Basic Studio Discussion
ArtS 2101—Second Year Drawing
ArtS 2102—Second Year Drawing
ArtS 3881—Junior Review
ArtS 4881—Senior Review
ArtS 4901—Senior Exhibit
Minimum 12 cr in one of the following media plus 6 cr in another and 3 cr in the third media:

Printmaking
ArtS 2201—Beginning Printmaking
ArtS 2202—Beginning Printmaking
ArtS 3200—Advanced Printmaking

Painting
ArtS 2301—Beginning Painting
ArtS 2302—Beginning Painting
ArtS 3300—Advanced Painting

Sculpture or Ceramics
ArtS 2401—Beginning Sculpture
ArtS 1050—Beginning Ceramics
ArtS 2402—Beginning Sculpture
ArtS 3400—Advanced Sculpture
or ArtS 2050—Advanced Ceramics
Minimum 6 credits ArtS 2xxx or above electives
Minimum of 8 credits of ArtH courses

Vocal Music K-12
Mus 0100—Concert Attendance (7 enrollments min)
Mus 1101—Core Studies I: Music Theory I
Mus 1102—Core Studies I: Music Theory II
Mus 1310—University Choir and/or 1320—Concert Choir (7 enrollments min)
Mus 1401—English, Italian, German, and French Diction for Singers
Mus 2101—Core Studies II: Music Theory III
Mus 2102—Core Studies II: Music Theory IV
Mus 3101—Core Studies III: Medieval, Renaissance, and Baroque Music
Mus 3102—Core Studies III: Classical, Romantic, and 20th Century Music
Mus 1200—1223—Individual Performance Studies (4-5 total enrollments)*
Mus 3200—3223—Advanced Individual Performance Studies in voice or keyboard (2-3 semesters)*
Mus 3301—Instrumental Techniques—Woodwind
Mus 3302—Instrumental Techniques—Brass and Percussion
Mus 3303—Instrumental Techniques—Strings
Mus 3304—Vocal Techniques
Mus 3311—Conducting Techniques
Mus 3331—Choral Conducting and Materials
Mus 4901—Senior Project
Piano Proficiency Test
Instrument Repair Clinic required for licensure
Secondary performance competence on an instrument (wind, string, percussion or keyboard)

* If jury exam is passed end of 4th semester: 4 cr Mus 1200-1223 and 3 cr of Mus 3200-3223; if jury exam is passed end of 5th semester: 5 cr Mus 1200-1223 and 2 cr of Mus 3200-3223

Admission to the Program
During fall semester of the junior or senior year, students are expected to attend an application meeting to begin the application process. Enrollment in the program is limited. The decision to admit is made during spring semester, before fall registration. The secondary education course sequence begins in fall semester.

Students transferring from another school must be admitted to UMM before admission to the secondary program can be offered. It is recommended that these students seek academic planning advice from a member of the secondary education faculty before the semester in which admission to the program is sought.

Requirements for admission include the following:

1. Successful completion (grade of C- or higher) of
   Psy 1061—Introduction to the Development of the Child and Adolescent (Psy 1051 is a prereq),
   Ed 2101—Foundations and Issues in Education,
   and Ed 2111—Tutor-Aide Practicum
   Though not required for admission, Psy 1081—Drugs and Human Behavior and Spch 1052—Introduction to Public Speaking are required courses for licensure. It is recommended that students complete these courses prior to beginning the program.
   For students desiring more in-depth alternatives, Psy 3401—Developmental Psychology I: Child Psychology and Psy 3402—Developmental Psychology II: Adolescence may be substituted

For students desiring more in-depth alternatives,
for Psy 1061—Introduction to the Development of the Child and Adolescent.

2. Completion of the Praxis I: Preprofessional Skills Test (PPST).

3. A minimum GPA of 2.50 overall and in required licensure area(s) and education courses. No grade of D will be accepted in licensure or education courses.

4. Approximately 90 credits completed by the end of the junior year including demonstration of satisfactory progress in each licensure area.

5. Approval of the faculty based on an interview, recommendations, assessment of prior experience (especially with young people and other cultures), and progress toward a degree.

6. Student must be admitted to UMM prior to program admission.

**Student Teaching Requirements**


2. Successful completion of licensure area methods course(s).

3. Satisfactory completion of tutor aide and practicum experiences.

4. Spch 1052 or exemption granted by petition to the Division of Education based on satisfactory completion of high school speech course or demonstrated ability.

5. A minimum GPA of 2.50 overall and in required licensure area(s) and education courses. No grade of D will be accepted in licensure or education courses.

6. Approval of teacher education faculty based on recommendations from faculty in the student’s discipline.

7. Passing scores on Praxis I and Praxis II and any other state mandated exams for new teachers.

*Note:* Students in secondary education must complete licensure requirements and apply for licensure within seven years from time of admission to the licensure program. After seven years, all education courses previously taken become void and must be retaken for licensure.

**Middle and Secondary School Licensure Requirements**

Students planning to teach in Minnesota middle and secondary schools must meet the licensure requirements of the Minnesota Board of Teaching (BOT).

At the University of Minnesota, Morris, the following program is designed to meet the current BOT requirements. These licensure requirements are subject to change when the BOT implements new licensure rules.

1. Professional education courses
   - Ed 2101 — Foundations and Issues in Education
   - Ed 2111 — Tutor-Aide Practicum
   - SeEd 4101 — Block I: Teaching the Middle and Secondary Student
   - SeEd 4102 — Block II: Teaching and Learning Strategies
   - SeEd 4103 — Practicum Experience in the Middle and Secondary School
   - SeEd 4201 — Directed Student Teaching in the Middle and Secondary School
   - or SeEd 4204 — Directed Student Teaching in International School at the Middle and Secondary Level
   - SeEd 4901 — The Teacher and Professional Development.

2. Successful completion of licensure area methods course(s).


4. Spch 1052 or exemption granted by petition to the Division of Education based on satisfactory completion of high school speech course or demonstrated ability.

5. A minimum GPA of 2.50 overall and in required licensure area(s) and education courses. No grade of D will be accepted in licensure or education courses.

6. Approval of teacher education faculty based on recommendations from faculty in the student’s discipline.

7. Passing scores on Praxis I and Praxis II and any other state mandated exams for new teachers.

Required courses may not be taken S-N unless offered S-N only.

**Course Descriptions**

- **SeEd 4101f. Block I: Teaching the Middle and Secondary Student.** (4 cr; prereq admission to the secondary teacher education program; coreq 4102, 4103, methods)

- **SeEd 4102f. Block II: Teaching and Learning Strategies.** (4 cr; coreq 4101, 4103, methods)

- **SeEd 4103f. Practicum Experience in the Middle and Secondary School.** (2 cr; coreq 4101, 4102, methods; S-N only)

- **SeEd 4102i. Directed Student Teaching in the Middle and Secondary School.** (4 cr; coreq 4101, 4102, methods; S-N only)

- **SeEd 4201s. Directed Student Teaching in the Middle and Secondary School.** (HDiv; 10 cr; prereq 4101, 4102, 4103, methods, Spch 1052 or exemption; S-N only)

   Students teach for a period of 11 weeks demonstrating application of approaches to teaching and learning in the middle and secondary grades under the guidance of a cooperating teacher and University supervisor.
SeEd 4202f,s. Directed Student Teaching in the Middle and Secondary School. (1-16 cr; prereq #: S-N only)
For students who need alternative or additional student teaching experience. Students demonstrate application of approaches to teaching and learning in middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

SeEd 4204s. Directed Student Teaching in International School at the Middle and Secondary Level. (IP; 10 cr; prereq 4101, 4102, 4103, methods, Spch 1052 or exemption; S-N only)
Students teach for a period of 11 weeks demonstrating application of approaches to teaching and learning in the middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

SeEd 4901s. The Teacher and Professional Development. (2 cr; prereq 4201 or 4204 or #)
Capstone experience. Professional development issues and philosophy of education, including portfolio assessment.

SeEd 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Middle and Secondary Education
Methods Courses
These courses focus on the objectives, curricula, special methods, materials, and evaluation appropriate for teaching the various subject matter areas in the middle and secondary school. Students must complete methods course(s) in their licensure area(s). Methods courses are taken concurrently with secondary education block courses—SeEd 4101, 4102, 4103—and must be successfully completed before student teaching in a specific field.

ArtE 4123f. Methods of Teaching Art K-12. (4 cr; A-F only)

EngE 4121f. Methods of Teaching Communication Arts and Literature in the Secondary School. (3 cr; coreq EngE 4122; A-F only)

EngE 4122f,s. Methods of Teaching Communication Arts and Literature in the Middle School. (1 cr; A-F only)

LanE 4123f. Methods of Teaching Foreign Language K-12. (4 cr; A-F only)

MthE 4121f. Methods of Teaching Mathematics in the Secondary School. (3 cr; coreq MthE 4122; A-F only)

MthE 4122f,s. Methods of Teaching Mathematics in the Middle School. (1 cr; A-F only)

MusE 4123f. Methods of Teaching Music K-12. (3 cr; A-F only)

MusE 4124f. Multicultural Music for the K-12 Music Educator. (1 cr; prereq #: A-F only)

SciE 4121f. Methods of Teaching Science in the Secondary School. (3 cr; coreq SciE 4122; A-F only)

SciE 4122f,s. Methods of Teaching Science in the Middle School. (1 cr; A-F only)

SScE 4121f. Methods of Teaching Social Science in the Secondary School. (3 cr; coreq SScE 4122; A-F only)

SScE 4122f,s. Methods of Teaching Social Science in the Middle School. (1 cr; A-F only)

ThE 4123f. Methods of Teaching Dance and Theatre Arts K-12. (4 cr; A-F only)

English (Engl)
This discipline is in the Division of the Humanities. English is the study of literature and language—its historical, imaginative, and intellectual development.

Objectives—The English program engages students in the study of primarily British and American literature of different periods, with an emphasis on various approaches to literary study. Students learn to discuss, orally and in writing, what they have read: how the author has structured the text, and how literary language achieves its effects and directs the reader’s response to the text. The major offers both broad exposure to and in-depth study of literature and language, as well as courses in creative and expository writing. English courses combine analysis and writing to teach students to be effective critical and imaginative readers and writers.

Major Requirements
Major requirements include a minimum of 10 courses (40 credits).

Prerequisite courses
Engl 1011—College Writing or equivalent (not included in the 40 credits for the major)
Engl 1131—Introduction to Literature

Survey courses
At least three courses from:
Engl 2201—British Literature Survey I
Engl 2202—British Literature Survey II
Engl 2211—American Literature Survey I
Engl 2212—American Literature Survey II

Additional requirements and electives
One course at 2xxx or above other than 2201, 2202, 2211, or 2212, or one course in Ham 1xxx-4xxx.
Five courses at 3xxx or above, including at least one Research Seminar at 4xxx.
One of the 10 courses in the major must have an HDiv designator at 2xxx or above.
Up to 4 credits of coursework with a grade of D may be used to meet the major requirements. Required courses may not be taken S-N unless offered S-N only.

Minor Requirements
Minor requirements include a minimum of six courses (24 credits).

Prerequisite courses
Engl 1011—College Writing or equivalent (not included in the 24 credits for the minor)
Engl 1131—Introduction to Literature
Survey courses
A. At least one course from:
   Engl 2201 — British Literature Survey I
   Engl 2202 — British Literature Survey II
B. At least one course from:
   Engl 2211 — American Literature Survey I
   Engl 2212 — American Literature Survey II

Additional requirements and electives
One course at 2xxx or above other than 2201, 2202, 2211, or 2212.
Two courses at 3xxx or 4xxx
One of the 6 courses in the minor must have an HDiv designator at 2xxx or above.
Up to 4 credits of coursework with a grade of D may be used to meet the minor requirements. Required courses may not be taken S-N unless offered S-N only.

Teacher Preparation Requirements
Students seeking teaching licensure in communication arts and literature 5-12 should refer to the Education, Secondary (SeEd) section of this catalog. Students completing the course requirements for licensure in Communication Arts/Literature earn an English major.

Course Descriptions
Engl 1001f. Fundamentals of Writing. (4 cr; may not be used to fulfill College Writing requirement)
Intensive practice in the fundamentals of writing. Students learn and apply strategies for generating, organizing, revising, and editing their writing.

Engl 1011f,s. College Writing. (CW; 4 cr)
Practice in expressive and analytical writing, with special emphasis on the multisource essay.

Engl 1131f,s. Introduction to Literature. (Hum; 4 cr; prereq 1011 or equiv)
Introduction to the study of fiction, poetry, and drama. Emphasis on gaining basic skills of analysis. A prerequisite to advanced courses in English.

Engl 2011. Introduction to Poetry and Poetic Language. (Hum; 4 cr; prereq 1011 or equiv)
An introduction to the techniques of close reading and the analysis of poetry. Emphasis on appreciating and understanding poetic form.

Engl 2012f. Introduction to Fiction. (Hum; 4 cr; prereq 1011 or equiv)
An introduction to critical reading and analysis of fiction (novels and/or short stories).

Engl 2013f. Introduction to Drama. (Hum; 4 cr; prereq 1011 or equiv)
An introduction to critical reading and analysis of dramatic literature.

Engl 2031. Gender in Literature and Culture. (HDiv; 4 cr; prereq 1011 or equiv; offered when feasible)
Introduction to literary and cultural representations of gender. Emphasis on the intersections between power and the social relations of gender, race, class, and sexuality.

Engl 2041s. Introduction to African American Literature. (HDiv; 4 cr; prereq 1011 or equiv; offered when feasible)
Introduction to issues and themes in African American literature and culture, with emphasis on historical and cultural context.

Topics in Writing: Study of a topic or method(s) of writing not normally covered by other English courses.

Engl 2106. Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World. (Envt; 4 cr; prereq 1011 or equiv)
Writing about the environment. Students learn to use the rich possibilities of language to express their responses to nature and convey to others the importance of close contact with the natural world. Readings in poetry and prose, discussion of technique, and experimentation with a variety of styles and literary forms.

Engl 2121f. Topics in Writing: Introduction to Creative Writing. (ArtP; 4 cr; prereq 1011 or equiv)
Introduction to the basic elements of creative writing, including exploration of poetry, story, and journal writing. Practice with techniques such as dialogue, description, voice, and style.

Engl 2151. Topics in Writing: Writing and Technology. (Hum; 4 cr; prereq 1011 or equiv)
Exploration of ongoing changes in writing techniques and rhetorical styles due to advancements in technology and globalization. Exploration and evaluation of various methods of writing in electronic formats. Writing assignments include both traditional and nontraditional methods.

Engl 2161. Topics in Writing: News Writing and Reporting. (Hum; 4 cr; prereq 1011 or equiv)
Introduction to news writing and reporting skills necessary for print and broadcast journalism.

Engl 2201f. British Literature Survey I. (Hum; 4 cr; prereq 1011 or equiv, 1131)
Readings in English poetry, prose, and/or drama from the beginnings to the 18th century. Specific authors vary.

Engl 2202s. British Literature Survey II. (Hum; 4 cr; prereq 1011 or equiv, 1131)
Readings in English poetry, prose, and/or drama from the 18th century to the present. Specific authors vary.

Engl 2211. American Literature Survey I. (Hum; 4 cr; prereq 1011 or equiv, 1131)
Study of important texts, canonical and non-canonical, and important periods and movements that define the colonial and U.S. experience up to 1865.

Engl 2212. American Literature Survey II. (Hum; 4 cr; prereq 1011 or equiv, 1131)
Study of selected historical and literary texts in U.S. literature, canonical and non-canonical, from 1865 to the present.

Engl 3001f,s. Advanced Expository Writing. (Hum; 4 cr; prereq #)
Formal training in expository writing, with special attention to the ways that context and audience affect writers’ stylistic choices.
Division Structure and Course Descriptions

**Engl 3010. Practicum in Writing Tutoring.** (Hum; 2 cr; repeatable to 4 cr; prereq 1011 or equiv; #; S-N only) Supervised experience in writing center tutoring, including exposure to composition and writing pedagogy theory. Students tutor 4 hours per week in the Writing Room and write a short reflective paper at the end of the semester. Run as a directed study.

**Engl 3012. Advanced Fiction Writing.** (ArtP; 4 cr; prereq #: offered when feasible) For experienced writers. Focus on developing skills and mastering creative and technical elements of writing fiction.

**Engl 3014s. Advanced Poetry Writing.** (ArtP; 4 cr; prereq #: offered when feasible) For experienced writers. Focus on developing skills and mastering creative and technical elements of writing poetry.

**Engl 3021f. Grammar and Language.** (Hum; 4 cr) Study of the English language. Historical development and current structure. Includes language variation and change, social history of language, phonology, syntax, semantics, development of English grammar, prescriptive versus descriptive grammar, and contemporary theories of grammar.

**Engl 3151s. Writing Revolution.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) Literary analysis of fiction, non-fiction, poetry, and drama that promoted, commented on, or responded to the American Revolution. Writers include Jefferson, Franklin, de Crevecoeur, Paine, Tyler, Freneau, Wheatley, Equiano, Rowson, Brown, Irving, and Child. Focus on the literary construction of national identity and debates about human rights, individualism, and westward colonization.

**Engl 3152s. 19th-Century British Poetry.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) Studies of the Romantic poets and their Victorian inheritors; their momentous influence is read in the context of political and industrial revolutions, crises of faith, and the redefinition of culture.

**Engl 3153f. Gothic Literature.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) The cultural origins of gothic literature in tension with the neoclassical values of 18th-century Britain and its persistent influence over the next two centuries (including its relationship to modern horror fiction and film). Emphasis on the ways gothic tales encode cultural anxieties about gender, class, and power.

**Engl 3154. 19th-Century British Fiction.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) The rise of the novel to respectability and prominence in Britain from the Romantics to the Victorians.

**Engl 3155. 20th-Century British Fiction.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) Major novelists from the Modernist period and after, focusing on the historical context of the new challenges to literary tradition.

**Engl 3156s. Modern Irish Literature.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) The poetry, fiction, and drama of Irish writers from 1890-1927, with attention to the ways that literature shaped a national identity.

**Engl 3157. English Renaissance Drama.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible) Provides students with a sense of the literary, historical, and imaginative contexts surrounding Early Modern Theatre. Students read Medieval, Elizabethan, and Jacobean dramas, with special attention to the works of Shakespeare’s contemporaries (e.g. Marlowe, Jonson, Cary, Middleton, Webster).

**Engl 3159s. Shakespeare.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) A careful reading of a representative selection of Shakespeare’s plays, with attention to their historical context, the poetic and dramatic aspects of Shakespeare’s art, and a variety of approaches to his work.

**Engl 3161. Medieval Literature.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) Early and later medieval prose, poetry, and drama produced and/or widely read in England from about 700-1500.

**Engl 3162. Chaucer.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible) Concentration on the Canterbury Tales and also some of Chaucer’s shorter poetry. Students study the writing of this influential poet—especially his range of genres and language—and explore his 14th century context (e.g., politics, plague, antifeminism, anticlericalism, peasant rebellions).

**Engl 3164. Fitzgerald and Hemingway.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible) Study of selected short stories, essays, and novels of F. Scott Fitzgerald and Ernest Hemingway with attention given to their role in shaping modern American concepts of masculinity, wealth, and what it means to be “American.”

**Engl 3165. 17th-Century English Poetry.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible) An examination of the poetry of 17th-century England, with special attention to John Donne, George Herbert, Margaret Cavendish, and John Milton.

**Engl 3166. Postcolonial Literature.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible) Study of literature as site of cultural conflict during and after imperial encounters, from the perspectives of both colonizers and colonized peoples. Particular focus on Britain and its former colonies.

**Engl 3221. Development of the Novel in the United States.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) Study of the development of the American novel in the 19th and 20th centuries.

**Engl 3231. Women and Modernism: A Room of Her Own.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) A study of formal and thematic innovations in fiction and poetry by women of the early 20th century. Includes Virginia Woolf, Gertrude Stein, Marianne Moore, and H.D.

**Engl 3241f. Mark Twain.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) A careful reading of Twain’s major works with attention to their controversial and darkly comic view of America.

**Engl 3251f. The Vietnam War in Literature and Film.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) Representations of the Vietnam War and its aftermath from multiple perspectives in poetry, prose, and film.
Engl 3261f. Modern British and American Poetry. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
A study of the continuities and break with traditions in 20th century poetry. Focus on innovations and experiments in form and theme.

Engl 3271f. Making the American Man. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)
Study of the rise of the “self-made man” and other mythic conceptions of American masculinity as they were expressed in the literature of the late 18th to early 20th century.

Engl 3281. The Literature of Slavery. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)
Study of fictional and non-fictional writing about chattel slavery in the United States. Readings include 19th-century works written to oppose or support slavery and 20th-century works written to understand slavery and its effects.

Engl 3301f. U.S. Multicultural and Multiracial Literatures. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
Examination of literatures by African American, Native American, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

Engl 3311f. Native American Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
Study of Native American literature written in English. Particular attention given to language, identity, land, and sovereignty.

Engl 3331f. African American Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
Study of African American literature. Particular attention given to issues of gender, class, power, “passing,” and the racialized body.

Engl 3341. Chicana/o and U.S. Latina/o Literatures. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
Study of Chicana/o and U.S. Latina/o literature from late 19th century to present and its historical and cultural contexts. Particular attention given to themes of language, identity, land, immigration/migration, and spirituality.

Engl 3342. Chicanas/os and Latinas/os in Film. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212 or #; offered when feasible)
Focus on how Chicanas/os and Latinas/os have been represented in Hollywood films and how Chicana/o and Latina/o writers, actors, and filmmakers have portrayed their peoples, cultures, and various issues in films and writings.

Engl 3411f. Critical Approaches to Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
An introduction to the major schools of literary theory and cultural analysis; particular attention to the ways in which the dialogue and debate between these approaches define the discipline of literary criticism.

Engl 3501s. The American West Revisited. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
A selection of readings that introduces and challenges the concept of the “frontier” as uncivilized land open for acquisition. Includes readings by European American explorers and settlers, Native Americans, Mexicans who inhabited the land, and African Americans who ventured West looking for freedom.

Engl 3511. Poetry and the Natural World. (Env't; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
A study of poetic representations of nature in 19th and 20th century British and American poetry.

Research Seminar: A research-based study of a literary subject that forms a capstone experience for majors.

Engl 4004. Research Seminar: Old English Literature and Language. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #)
Prose and poetry of early medieval England (650-1100) in translation and in Old English (which is studied), with attention to material (manuscripts) and cultural contexts and to reception history.

Engl 4006. Research Seminar: Poetry and Nature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #)
Exploration of poetic language as a medium for representing the natural world. Readings of poets such as A.R. Ammons, Robinson Jeffers, Emily Dickinson, Wallace Stevens, and Marianne Moore.

Engl 4007. Research Seminar: Victorian England and the Literature of Social Change. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #)
The study of several major Victorian literary works that focus on social issues like industrialism, class rivalry, public education, Darwinism, emerging democratic institutions, and women’s rights. Students engage in independent study and report-writing as important components of this course.

Engl 4008. Research Seminar: African American Literature, Culture, Politics, 1890-1914. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #)
This seminar uses selected literary texts, primary historical sources, and theoretical materials to examine the literary and cultural movements undertaken by African Americans during what is popularly called the “nadir” in their history. Authors may include Frances Harper, W.E.B. DuBois, Pauline Hopkins, James Weldon Johnson, and Charles Chesnutt.

Engl 4009. Research Seminar: Sexuality and Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #)
Representations of sexuality in 20th-century American literature with an emphasis on writings by gay, lesbian, bisexual, and transsexual authors.

Engl 4100. Research Seminar: Joseph Conrad. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #)
Contemporary theoretical and critical approaches to three novels: Heart of Darkness, Almayer’s Folly, and Lord Jim.

Engl 4101. Research Seminar: Civilized and Savage in American Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #)
Examination of the binary between “savage” and “civilized” as it was used in 19th-century American writings concerned with the spread of U.S. culture and industry.

Engl 4102. Research Seminar: Imagining the Earth. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #)
A study of imaginative writing (poetry and prose) about the earth, and an examination of the ways that language transforms or shapes our perceptions of the natural world. In addition to the primary literary works, students read selections about our understanding of the natural world from science, philosophy, and ecocriticism.
Division Structure and Course Descriptions

Engl 4013. Research Seminar: Drama of Shakespeare's Contemporaries. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #) Examination of the drama of Shakespeare's contemporaries—works by playwrights such as Thomas Kyd, Christopher Marlowe, Ben Jonson, and Thomas Middleton. Through detailed reading, students become better acquainted with drama of the period and ask questions about why Shakespeare has become so much more popular than his contemporaries.

Engl 4014. Research Seminar: The British Imperial Imagination. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible) Exploration of the cultural influences of Britain's imperial adventures from 1850 to 1950, especially as expressed in popular fiction (including detective novels and children's adventure stories). Readings include works by Dickens, Wilkie Collins, A. C. Doyle, Rudyard Kipling, E. M. Forster, and a selection of historical and critical texts.

Engl 4015. Research Seminar: James Joyce. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible) Joyce's Dubliners, A Portrait of the Artist as a Young Man, and Ulysses, with attention to the biographical and historical contexts.

Engl 4016. Research Seminar: Women and the Market in 19th-Century America. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible) Popular writing by American women in the historical context of industrial expansion, the development of modern conceptions of home and workplace as separate spheres, and the emergence of U.S. consumer culture.

Engl 4017. Research Seminar: Tricksters-Conjurers in Native American and African American Literature. (Div; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible) Study of tricksters and conjurers in Native American and African American literature, in particular their ability to maintain traditional practices and subvert the dominant culture and imposed cultural norms. Special attention given to cultural and historical contexts and questions of power, identity, cultural difference, and assimilation.

Engl 4018. Research Seminar: American Postmodern Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible) Study of American literature from the postmodern period, 1950s to the present, often characterized by the blurring of genres, the breakdown of “high” and popular culture, the movement of marginalized subjects to the center of cultural expression, and the use of paradox and irony to suggest disillusionment and lack of closure.

Engl 4019. Research Seminar: Rewriting Shakespeare for Film and Stage. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible) Study of plays and films from the Restoration until today that involves a rewriting or revision of a Shakespearean play. Through detailed analysis of these revisions, students explore questions about the authenticity of the Shakespearean “original” and how people from other time periods have appropriated his plays for their own purposes.

Engl 4021. Research Seminar: British Literature of the Fin de Siecle. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible) Study of literature at the end of the 19th century in Britain, including such topics as the widening split between “literature” and popular culture, the redefinition of realism, and the crisis of sexuality. Reading includes fiction by Conrad, Haggard, Hardy, Stoker, Wells, and Wilde, as well as recent criticism and historiography.

Engl 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Continuing Education Courses

Engl 3163. CE: Life in a Medieval City: Literature and Culture in York, 700-1500. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible) Travel to York, England, to study the literature and history of the city from Anglo-Saxon times to the end of the Middle Ages. Focus on the role that York played as the second city of medieval England, emphasizing the diverse cultural influences on the city. Day trips to historically significant sites in the vicinity of York.

Engl 3451. CE: Shakespeare's England. (Hum; 4 cr; offered summers as feasible) Same as Th 3451. A study-abroad course in London and Stratford that concentrates on Shakespeare’s plays in performance. Exploration of the relationship between plays as written scripts and the decisions directors and actors make when they stage productions.

European Studies (ES)

This is an interdisciplinary major under the authority of the vice chancellor for academic affairs and dean. The program is administered by the coordinator of European studies.

Objectives—The purpose of the European studies program is to acquaint students with the culture and society of Europe from the Middle Ages to the present as well as Europe’s classical antecedents. The study of modern Europe reflects recent changes in Central/ Eastern Europe and Russia. The approach is interdisciplinary, drawing on various fields of study.

Major Requirements

Major requirements include language proficiency in French, German, or Spanish equivalent to that required for the completion of the course numbered 2002 in the language. (Students planning to pursue advanced courses in French, German, or Spanish should note that proficiency beyond 2002 is sometimes a prerequisite to some of the courses listed below.) Equivalent proficiency in European languages not offered at UMM may also be used to satisfy this requirement. In addition, 48 credits must be selected from the courses listed below, with a maximum of 16 of the credits in any one discipline.
1. Students develop a coherent program and a plan of study in consultation with their major advisers. Advisers normally are faculty with a specialty in an appropriate area. Upon approval by the advisers, the program and plan are forwarded to the vice chancellor for academic affairs for information.

2. Any directed study course for which an instructor is available is acceptable provided the subject matter is appropriate.

3. The courses listed below as well as courses in other disciplines are acceptable provided the subject matter is appropriate.

4. Students are encouraged to spend a period of time in Europe pursuing conventional coursework, independent studies, or other study abroad programs.

Note: Students planning to major in European studies must register with the vice chancellor for academic affairs and dean.

Course Descriptions

ArtH 3121s. Renaissance to Modern Art. (FA; 4 cr) Survey of the major works of art of western Europe from 1400 to the present.

ArtH 3131. Northern Renaissance Art. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; offered when feasible) Painting, sculpture, and architecture of France, Belgium, the Netherlands, and Germany during the late 14th century to the mid-16th century, tracing the development of oil painting and interpreting the significant imagery of the period.

ArtH 3142s. Art of the Italian Renaissance, 1300-1520. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; not offered 2005-06) A variety of methods (including stylistic, gender, and contextual theories) are used to explore the painting and sculpture of such artists as Giotto, Donatello, Leonardo, Raphael, and Michelangelo.

ArtH 3161f. 16th-Century European Art. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; not offered 2005-06) A study of art during a period of cultural upheaval and radical change in Italy and northern Europe from 1520 to 1590.

ArtH 3171s. Baroque Art. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; not offered 2005-06) A sociohistorical consideration of the stylistic and thematic diversity present in the works of such 17th-century masters as Caravaggio, Bernini, Velazquez, Rembrandt, and Vermeer.

ArtH 3181. Rococo to Revolution. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; offered when feasible) An examination of the visual arts in relation to social and historical developments in 18th-century Europe, such as the Enlightenment, the French Revolution, archaeological discoveries, the Grand Tour, and the rise of art criticism.

ArtH 3201f. 19th-Century European Art through Post-Impressionism. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; not offered 2005-06) Survey of major movements from Neoclassicism through Romanticism, Realism, and Impressionism to Post-Impressionism. Attention is given to iconographical and formal analysis as well as to the social conditions in which artists lived and worked.

ArtH 3211s. Early Modernist Art: Symbolism to Surrealism. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; not offered 2006-07) Survey of the major early modernist movements from Symbolism through Cubism, Futurism, Expressionism, Constructivism, De Stijl, and the Bauhaus to Surrealism. Attention is given to theories of modern art as well as to formal and iconographical analyses and to the social conditions in which modern art was created and experienced.

ArtH 3281f. Women and Art. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #; not offered 2005-06) A historical survey of women’s roles as creators and patrons of the visual arts in Western European and American societies, from antiquity to the present.

ArtH 3291. Facing the Past: Portraiture and Social History. (FA; 4 cr; prereq any 1xxx ArtH course or jr status or #) This seminar examines functions and formats of portraits created primarily in Western Europe between 1400-1800, in order to gain greater insight as to how various social identities (such as that of husband and wife, child, friend, and freak of nature) were visually constructed and verbally interpreted.

Econ 3131s. Comparative Economic Systems. (IP; 2 cr; prereq 1111, 1112 or #; not offered 2005-06) Comparison of the theory and functioning of the major economic systems of the world; economic reform in capitalist and socialist economies.

Econ 4121s. International Trade Theory. (SS; 2 cr; prereq 3201 or #) Overview of why trade occurs, pattern of trade and international factor movement. Effect of trade and trade policy on the economy. Current topics in trade theory.

Engl 2201f. British Literature Survey I. (Hum; 4 cr; prereq 1011 or equiv, 1131) Readings in English poetry, prose, and/or drama from the beginnings to the 18th century. Specific authors vary.

Engl 2202s. British Literature Survey II. (Hum; 4 cr; prereq 1011 or equiv, 1131) Readings in English poetry, prose, and/or drama from the 18th century to the present. Specific authors vary.

Engl 3103f. Gothic Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) The cultural origins of gothic literature in tension with the neoclassical values of 18th-century Britain and its persistent influence over the next two centuries (including its relationship to modern horror fiction and film). Emphasis on the ways gothic tales encode cultural anxieties about gender, class, and power.

Engl 3154. 19th-Century British Fiction. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) The rise of the novel to respectability and prominence in Britain from the Romantics to the Victorians.

Engl 3156s. Modern Irish Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) The poetry, fiction, and drama of Irish writers from 1890-1927, with attention to the ways that literature shaped a national identity.
Engl 3157. English Renaissance Drama. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible) Provides students with a sense of the literary, historical, and imaginative contexts surrounding early modern theatre. Students read medieval, Elizabethan, and Jacobean dramas, with special attention to the works of Shakespeare’s contemporaries (e.g. Marlowe, Jonson, Cary, Middleton, Webster).

Engl 3159s. Shakespeare. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212) A careful reading of a representative selection of Shakespeare’s plays, with attention to their historical context, the poetic and dramatic aspects of Shakespeare’s art, and a variety of approaches to his work.

Engl 3162. Chaucer. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible) Concentration on the Canterbury Tales and reading some of Chaucer’s shorter poetry. Students study the writing of this influential poet—especially his range of genres and language—and explore his 14th century context (e.g., politics, plague, antifeminism, anticlericalism, peasant rebellions).

Fren 1302f. French Cinema. (IP; 4 cr; prereq #; not offered 2005-06) Same as Hum 1302. History of filmmaking in France from the Lumière brothers to the present; introduction to major trends in film theory. All films have English subtitles. Taught in English, but all papers and some reading/discussion will be in French.

Fren 1303f. Paris as Text/Image/Sound. (IP; 4 cr; prereq #; not offered 2005-06, 2006-07) Same as Hum 1303. Explores how representations of Paris in literature, film, music, and photography have been a key to the construction and the lived experience of the city and how new forms of writing, image-making, and sound production have emerged from the modern metropolis. Texts by Balzac, Baudelaire, Hemingway, Stein, and others. Taught in English, but all papers and some reading/discussion will be in French.

Fren 1304f. French Women Authors in Translation. (IP; 4 cr; prereq #; not offered 2006-07) Same as Hum 1304. French women’s movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Taught in English, but all papers and some reading/discussion will be in French.

Fren 3011s. Reading and Analysis of Texts. (Hum; 4 cr; prereq 3001 or #) Introduction to representative literary works of France and the French-speaking world. Development of ease in reading French; introduction to methods for analyzing its style and meanings.

Fren 3022f. EMS: French Culture I: Medieval and Early Modern France. (Hist; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) This course traces the history of French culture from the Middle Ages until the French Revolution; it examines the geography, language, and institutions of medieval and early modern France. Meets Early Modern requirement in French major.

Fren 3023s. EMS: French Literature I: Medieval and Early Modern France. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) Survey of French literature from the Middle Ages to the Enlightenment; a study of the successive ideals of feudalism, Renaissance knowledge and lyricism, classical reason and unreason, and the “Rights of Man.” Meets Early Modern requirement in French major.

Fren 3024s. EMS: French Fairy Tale and the Fantastic. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06) Study of the marvelous and the fantastic from the 17th century to the end of the 19th century. Readings from Charles Perrault, Mme Leprince de Beaumont, Mme d’Aulnoy, Guy de Maupassant, and others. Meets Early Modern requirement in French major.

Fren 3025s. EMS: Wonder and the Marvelous. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2006-07) Examination of “le merveilleux” in French literature in medieval and early modern texts. Examples are taken from the work of Marie de France, Rabelais, Ambroise Paré, Descartes, and several barouque dramatists. Meets Early Modern requirement in French major.

Fren 3032f. MOS: French Culture II: Modern and Contemporary France. (IP; 4 cr; prereq or coreq. Fren 3011 or #; not offered 2005-06) A study of French culture and history from the French Revolution to the present, and France’s fitful development as a modern, multicultural democracy. Meets Modern requirement in French major.

Fren 3033s. MOS: French Literature II: Revolution, Romanticism, Modernity. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06) French literature from the Enlightenment to the present. A chronological survey examines the human condition as shaped by a new awareness of the role of individual agency in shaping history, the creative self, and the unconscious. Meets Modern requirement in French major.

Fren 3034s. MOS: French Poetry and Music. (Hum; 4 cr; prereq or coreq 3011; not offered 2005-06, 2006-07) Survey of French poetry and music with emphasis on 19th and 20th century poetry and 20th-21st century music. Studying music enhances understanding of the fundamentals of verse, including rhyme, meter, and sound. Meets Modern requirement in French major.

Fren 3043s. FRS: Littérature migrante. (IP; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) Examination of texts written by people on the move: immigrants, migrants, people in exile. How do their texts move with them? How do these movements challenge national paradigms? Meets Francophone requirement in French major.

Fren 4021f. French and Francophone Theater. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) The study of theatrical texts of France and other French-speaking countries, including the history of theater, various theatrical movements, and the political nature of theatrical texts. Some oral interpretation is included.

Fren 4991. Independent Study in French Abroad. (IP; 4 cr; repeatable to 12 cr; prereq 2002 or #; 3022 or 3032 or 3041 recommended) An independent study designed for study abroad and based on the student’s research interests in French or Francophone language, culture, history, etc. The project is defined in consultation with a French faculty member before the student leaves the United States. The faculty member guides the project via e-mail.
European Studies

Ger 3041. New German Cinema. (IP; 4 cr; prereq 3011; offered when feasible)
Same as Hum 3041. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Ger 3042. Weimar Film. (IP; 4 cr; prereq 3011; offered when feasible)
Same as Hum 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Ger 3101. Survey of German Literature and Culture I. (Hum; 4 cr; prereq 3011 or #)
Chronological study of German literature and its cultural background from the early beginnings through the 18th century. Selected representative works are read and analyzed.

Ger 3102. Survey of German Literature and Culture II. (Hum; 4 cr; prereq 3011 or #)
Chronological study of German literature and its cultural background from the 18th century to the 20th century. Selected representative works are read and analyzed.

Ger 3201. Periods: German Classicism. (Hum; 4 cr; prereq 3101, 3102 or #; not offered 2006-07)
Readings in aesthetic theory and exemplary works by writers of the period. Texts by Goethe and Schiller are read and analyzed in conjunction with opera librettos based on their works. Modern films and videos of theater performances supplement the readings.

Ger 3202. Periods: German Romanticism. (Hum; 4 cr; prereq 3101, 3102 or #; not offered 2005-06)
Readings in Romantic theory and works by important authors of the period: Wackenroder, Tieck, Novalis, Eichendorff, and E.T.A. Hoffmann. Other art forms, such as music and painting supplement the literary discussions.

Ger 3203. Periods: German Modernism (IP; 4 cr; prereq 3101, 3102 or #; offered when feasible)
Explores the culture of German-speaking countries around the turn of the 20th century (1890-1933) through literature, music, and the visual arts, especially as manifested in Symbolism, Secession (Art Nouveau), Expressionism, Dada, and New Objectivity.

Ger 3501. Women's Issues in Contemporary German Culture. (IP; 4 cr; prereq 3011 or #; offered when feasible)
Same as Hum 3501. Focus is on the German women’s movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Ger 3601. Studies in German Literature. (Hum; 4 cr; prereq 3011, #; offered when feasible)
Selected readings in German reflecting modern literary trends. The course examines the cultural politics in the evolvement of the literature in the formerly divided Germany, using plays, novels, biography, and documentary reports. It deals with questions of literary theory, history, and sociopolitical structures.

Hist 3003. World War I. (Hist; 4 cr; offered when feasible)
Historical examination of World War I.

Hist 3007. The Invention of the University in Medieval Europe. (Hist; 4 cr; offered when feasible)
An examination of the university. Who studied and taught at these various institutions and why? What was studied and why? How were these studies sponsored and organized and what purpose(s) did they serve? To what extent do modern universities derive from these medieval institutions?

Hist 3101. Renaissance and Reformation. (Hist; 4 cr; offered when feasible)
Italian and Northern Renaissances as cultural, economic, and political phenomena; the Reformation as a religious and political movement.

Hist 3102. Early Modern Europe to 1750. (Hist; 4 cr)
Survey of historical developments in Europe from about 1350 to 1750.

Hist 3103. Medieval Europe. (Hist; 4 cr; offered when feasible)
Survey of historical developments in Europe from about 500 to 1500.

Hist 3105. Early Medieval Europe. (Hist; 4 cr; offered when feasible)
Survey of historical developments in Europe between 500 and 1100.

Hist 3106. Late Medieval Europe. (Hist; 4 cr; offered when feasible)
Survey of historical developments in Europe between 1100 and 1500.

Hist 3151. Modern Europe. (Hist; 4 cr; offered when feasible)
History of modern Europe emphasizing political, economic, social, and intellectual developments since 1789.

Hist 3154. The Scientific Revolution. (Hist; 4 cr; offered when feasible)
Course readings focus upon several questions: Is there a basis for the common belief that religion and science share a mutual antagonism? How did new knowledge about the physical world differ from received traditions and why was this important? Was there a built-in sexism in the new science as suggested by Bacon’s prose?

Hist 3155. Science, Technology, and Warfare in the 20th Century. (Hist; 4 cr; offered when feasible)
From WWI through the Persian Gulf War, technology and warfare have grown in sophistication. Examination of how warfare benefits from technology and how technology sometimes benefits from warfare. Special attention to Nazi science and technology.
Hist 3156. Modern German Intellectual History. (Hist; 4 cr; offered when feasible)
Examination of German intellectual history from 19th and 20th century philosophical, literary, and scientific sources. Reading of translated excerpts from Schopenhauer, Nietzsche, Kafka, Rosa Luxemburg, Clara Zetkin, Einstein, Neils Bohr, and others. Consideration of Nazi propaganda and the use of science and pseudoscience by the Third Reich.

Hist 3157. Modern Russian Intellectual History. (Hist; 4 cr; offered when feasible)
Examination of Russian intellectual history from 19th and 20th century philosophical, literary, and scientific sources. Reading of translated excerpts from Tolstoy, Dostoevsky, Pushkin, Pavlov, Anna Akhmatova, Alexander Solzhenitsyn, and others.

Hist 3158. Women in Science, 1650-1950. (Hist; 4 cr; offered when feasible)
Examines the roles women have played in the formation of modern science. Analysis of Francis Bacon (c 1625) and his allegedly sexist language. Differences between the Royal Society of London and the French Academy of Sciences regarding women. Consideration of a range of medical devices, including the stethoscope, designed specifically to treat women. Analysis of contributions to physics made by Marie Curie, Lise Meitner, and others to the early 20th-century’s revolution in physics.

Hist 3202. Russian Revolution. (Hist; 4 cr; offered when feasible)
History of the Russian Revolution. Origins, the March and October Revolutions, the Civil War, and beginnings of Communist rule.

Hist 3204. Nazi Germany. (Hist; 4 cr; offered when feasible)
History of Nazi Germany. Social and political origins, Nazi rule in the 1930s, the “final solution,” World War II, and Germany’s attempt to assess this era in its history.

Hist 3207. The Crusades. (Hist; 4 cr; offered when feasible)
The European crusades from 1000-1500, with emphasis on diverse responses particularly, by both Muslims and Christians.

Hist 3208. Modern Britain. (Hist; 4 cr; offered when feasible)
Examination of British history from the late 18th century until the conclusion of World War I. Primary focus on the effects of the industrial revolution on society. Particular emphasis on how these changes affected the working classes, including their growing ability to participate in the political process.

Hist 3703. 20th-Century European Women. (Hist; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Social history of 20th-century European women.

Hist 3704. Women in the Middle Ages. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Examination of lives of women in Europe from about 500 to 1500.

Hist 3706. Women in Early Modern Europe. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Examination of lives of women in Europe from about 1350 to 1750.

Hist 3041. New German Cinema. (IP; 4 cr; offered when feasible)
Same as Ger 3041. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Hum 3042. Weimar Film. (IP; 4 cr; offered when feasible)
Same as Ger 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Mus 1041f. Introduction to Music. (FA; 4 cr)
Survey emphasizing development of an intelligent understanding and appreciation of music. For non-music majors.

Mus 3101f. Core Studies III: Medieval, Renaissance, and Baroque Music. (Hist; 4 cr; prereq 1102, major or minor or #)
Historical development of Western music and representative literature of the various periods and styles.

Pol 1401f. World Politics. (IP; 4 cr)
The contemporary international system, including nationalism, international political economy, foreign policy formulation, and global concerns such as the environment and conflict. North/South debate, definitions of power, the new world order, regional vs. global conflicts, and avenues of cooperation.

Pol 3352s. Political Thought: Modern. (Hum; 4 cr; prereq 1101 or #)
Machiavelli; theories during the Renaissance, Reformism, and Counter-Reformation. Early modern absolutism, the emergence of modern contract theory, constitutionalism, liberalism, and utopianism.

Hum 3041. Introduction to Music. (IP; 4 cr; offered when feasible)
Survey emphasizing development of an intelligent understanding and appreciation of music. For non-music majors.

Hum 3042. Weimar Film. (IP; 4 cr; offered when feasible)
Same as Ger 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Hum 3043. Modern German Intellectual History. (Hist; 4 cr; offered when feasible)
Same as Ger 3043. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Hum 3044. Weimar Film. (IP; 4 cr; offered when feasible)
Same as Ger 3044. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).
and traditional conservatism. Of the period, marked by tensions between liberal reform and Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservatism.

Span 3651. Seminar: Miguel de Cervantes Saavedra’s El ingenioso hidalgo Don Quijote de la Mancha. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of Miguel de Cervantes Saavedra’s novel El ingenioso hidalgo Don Quijote de la Mancha in light of its sociohistorical context.

Span 3652. Seminar: Literary Minorities in Early Modern Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of the representative literary works written by or about Spanish Jewish and Muslim minorities from the middle ages to the 17th century in light of their respective sociohistorical contexts.

Span 3653. Seminar: María de Zayas: Literary Violence in Golden Age Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of the major works of 17th-century writer María de Zayas y Sotomayor, The Enchantments of Love (1637) and The Disenchantments of Love (1647), in light of their sociohistorical contexts and the political issues surrounding the formation of literary canons.

Span 3654. Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature. (Hum; 4 cr; prereq 3002, 3101)
The theme of sex, love, and marriage in Golden Age Spanish Literature through prose, poetry, and theatre of the Golden Age (XVI-XVII centuries) Spain. Consideration of the gender relations and gender politics reflected in the works and the sociohistorical context in which these works were produced.

Span 3671. Seminar: Origins of the Spanish Character. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Themes common to Spain, explored in both traditional and modern contexts, may include honor, patriotism, religion, idealism, individuality, satire, love, pride, etc.

Span 3672. Seminar: Reform in Spain: The Saint and the Journalist. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Analyzing, comparing, and contrasting the lives and writings of St. Teresa of Avila (XVI Century) and Mariano José de Larra (XIX Century) as they worked toward a better Spain. Difficulties of religious and cultural reform as well as differences in traditional and enlightenment values are explored.

Span 3681. Seminar: Romanticism and Revolution in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of prose and poetry from the first half of the 19th century in Spain, with emphasis on the expression of the Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservatism.

Span 3682. Seminar: Realism and Reform in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of novels, stories, and essays from the second half of the 19th century in Spain, with emphasis on the rise of realism as an exploration of the sociopolitical reality of the era and the need for reform. The focus is on general trends in Western cultures (e.g., industrialization, positivism, secularization).

Span 3683. Seminar: Modernity and Identity in Spain, 1900-1930. (Hum; 4 cr; prereq 3002, 3101)
Study of prose and poetry from the early decades of the 20th century in Spain with particular emphasis on their responses to changes brought by modernity: advancing technology, modern psychology, political experimentation, spiritual exploration, and artistic innovation.

Span 4001. Research Symposium. (Hum; 4 cr; prereq #; A-F only)
A capstone experience for majors, consisting of an introduction to research methods and critical approaches to literature, as well as development of an independent research project and presentation.

Spch 3411. Intercultural Communication Theory and Research. (HDiv; 4 cr; prereq 2101 or #)
Study of intercultural communication from an interpersonal and group perspective.

Th 3101f. World Theatre: History and Literature I. (FA; 4 cr)
Theatrical practice and dramatic literature from origins through late 17th century, tracing the roots leading to, and influences on, early modern European theatre practice and dramatic literature, as well as examining select Asian, African, and/or pre-Columbian American theatrical practice.

Th 3102s. World Theatre: History and Literature II. (FA; 4 cr)
Theatrical practice and dramatic literature from the late 17th century to the present, examining select Asian, African, and/or Western Hemisphere theatrical practice, as well as tracing the roots leading to, and influences on, current world theatre practice and dramatic literature.

Foreign Languages and Literatures

(See French [Fren], German [Ger], Russian [Russ], and Spanish [Span].)

UMM offers majors and minors in French, German, and Spanish. Some beginning courses in Russian and Italian are also offered. Study of a foreign language, culture, and literature may be undertaken for its own sake as part of a traditional liberal education. It is useful as well for preparation for teaching, graduate or professional work, and business careers.

In addition to organized foreign language programs, UMM offers a variety of other language options. See the individual discipline sections for complete catalog descriptions. Check the Class Schedule for courses to be taught in a specific term. The following are courses that could be offered.
French (Fren)

This discipline is in the Division of the Humanities. The French discipline gives students the language and analytic skills necessary to participate in the cultural life and appreciate the literary heritage of France and Francophone countries throughout the world. French is an important language of diplomacy, commerce, health care, and research in many disciplines, such as music, art, linguistics, history, law, political science, anthropology, and philosophy.

Objectives — The French discipline is designed to teach skills necessary for communicating with a variety of French-speaking peoples and to introduce their rich cultures, including their ideas, institutions, and writings, past and present. It invites students to look at the impact these cultures have had on Western civilization and to examine all of them critically.

Major Requirements
Fren 2001 — Intermediate French I
Fren 2002 — Intermediate French II
Fren 3001 — Conversation and Composition
Fren 3011 — Reading and Analysis of Texts
One course from the Early Modern Studies cluster (see EMS designator in course title)
One course from the Modern Studies cluster (see MOS designator in course title), or Fren 1302, Fren 1303 or Fren 1304

One course from the Francophone Studies cluster (see FRS designator in course title), or Fren 1311
Fren 4901 — Senior Seminar

Minor Requirements
Fren 2001 — Intermediate French I
Fren 2002 — Intermediate French II
Fren 3001 — Conversation and Composition
Fren 3011 — Reading and Analysis of Texts
A minimum of 8 additional credits from Fren courses at 3xxx or above

Certificate Program in French
The Certificate Program in French responds to the growing demand for individuals who can communicate successfully in a global environment, and is intended for students whose other academic commitments prevent them from completing either a major or a minor in French. To earn a certificate, a student must:

a) Complete a minimum of 12 credits of college-level course work in French at UMM beyond the foreign language requirement at the 2xxx or 3xxx level. Performance across three courses will give the faculty a chance to assess the skills and progress of the student.

b) Earn at least a B in each of the three courses (S-N grades will not be accepted for the Certificate)
Four of the 12 credits required for the certificate may be earned through study abroad, such as the UMM July in Paris Program. All courses for the certificate must have a Fren designator. Courses taught in English do not meet the requirements for the certificate program. Students who complete a major or minor in French are not eligible for the certificate program.

A student who has met the above requirements will receive a reference letter from the UMM French faculty certifying completion of the certificate program as well as language competence.

**Teacher Preparation Requirements**

Students seeking teaching licensure in French K-12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Required Proficiency/Placement Examination**—Students who plan to complete courses in the same language they studied in high school must take the proficiency/placement examination and abide by the placement recommendation. If, after an initial exposure to the recommended course, the placement seems inappropriate, students may follow the recommendation of their language instructor as to the proper entry course.

**Study Abroad**

In light of today’s increasingly interdependent world, the UMM French faculty endorses study abroad, in combination with a French major or minor, as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one’s world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

**Course Descriptions**

**Fren 1001f. Beginning French I.** (FL; 4 cr)

An introduction to oral and written French, its basic structure, and to French culture.

**Fren 1002s. Beginning French II.** (FL; 4 cr; prereq 1001 or placement or #)

Continuation of 1001.

**Fren 1302f. French Cinema.** (IP; 4 cr; prereq #; not offered 2005-06)

Same as Hum 1302. History of filmmaking in France from the Lumière brothers to the present; introduction to major trends in film theory. All films have English subtitles. Taught in English, but all papers and some reading/discussion will be in French.

**Fren 1303f. Paris as Text/Image/Sound.** (IP; 4 cr; prereq #; not offered 2005-06, 2006-07)

Same as Hum 1303. Explores how representations of Paris in literature, film, music, and photography have been a key to the construction and the lived experience of the city and how new forms of writing, image-making, and sound production have emerged from the modern metropolis. Texts by Balzac, Baudelaire, Hemingway, Stein, and others. Taught in English, but all papers and some reading/discussion will be in French.

**Fren 1304f. French Women Authors in Translation.** (IP; 4 cr; prereq #; not offered 2006-07)

Same as Hum 1304. French women’s movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Taught in English, but all papers and some reading/discussion will be in French.

**Fren 1311f. West African Francophone Cinema.** (IP; 4 cr; prereq #; not offered 2005-06, 2006-07)

Same as Hum 1311. Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Taught in English, but all papers and some reading/discussion will be in French.

**Fren 2001f. Intermediate French I.** (IP; 4 cr; prereq 1002 or placement or #)

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

**Fren 2002s. Intermediate French II.** (IP; 4 cr; prereq 2001 or placement or #)

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

**Fren 2011f. Introduction to French Phonetics.** (Hum; 2 cr; repeatable to 4 cr; open to all students of French; course does not count toward FL requirement)

Training in French pronunciation through general and French phonetics geared towards speakers of American English. Course meets twice a week for 50 minutes.

**Fren 3001f. Conversation and Composition.** (IP; 4 cr; prereq 2002 or placement or #)

Conversation, including work on sounds and sound patterns as well as vocabulary building and practice based on common situations; writing skills; and advanced grammar review.

**Fren 3011s. Reading and Analysis of Texts.** (Hum; 4 cr; prereq 3001 or #)

Introduction to representative literary works of France and the French-speaking world. Development of ease in reading French; introduction to methods for analyzing its style and meanings.
Early Modern Studies: Courses with an Early Modern Studies designator (EMS) in the title fall within the period from the Middle Ages to the French Revolution. Students gain familiarity with the history, culture, and literature of France from its beginning in feudal society through the Enlightenment and the end of the Ancien Régime.

Fren 3022f. EMS: French Culture I: Medieval and Early Modern France. (Hist; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) This course traces the history of French culture from the Middle Ages until the French Revolution; it examines the geography, language, and institutions of medieval and early modern France. Meets Early Modern requirement in French major.

Fren 3023s. EMS: French Literature I: Medieval and Early Modern France. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) Survey of French literature from the Middle Ages to the Enlightenment; a study of the successive ideals of feudalism, Renaissance knowledge and lyricism, classical reason and unreason, and the “Rights of Man.” Meets Early Modern requirement in French major.

Fren 3024s. EMS: French Fairy Tale and the Fantastic. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06) Study of the marvelous and the fantastic from the 17th century to the end of the 19th century. Readings from Charles Perrault, Mme Leprince de Beaumont, Mme d’Aulnoy, Guy de Maupassant, and others. Meets Early Modern requirement in French major.

Fren 3025s. EMS: Wonder and the Marvelous. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2006-07) Examination of “le merveilleux” in French literature in medieval and early modern texts. Examples are taken from the work of Marie de France, Rabelais, Ambroise Paré, Descartes, and several baroque dramatists. Meets Early Modern requirement in French major.

Modern Studies: Courses with a Modern Studies designator (MOS) in the title cover a wide range of historical, literary, and cultural moments and movements that have marked France’s development since 1789, the beginning of the French Revolution.

Fren 3032f. MOS: French Culture II: Modern and Contemporary France. (IP; 4 cr; prereq or coreq 3011 or #; not offered 2005-06) A study of French culture and history from the French Revolution to the present, and France’s fitful development as a modern, multicultural democracy. Meets Modern requirement in French major.

Fren 3033s. MOS: French Literature II: Revolution, Romanticism, Modernity. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06) French literature from the Enlightenment to the present. A chronological survey examines the human condition as shaped by a new awareness of the role of individual agency in shaping history, the creative self, and the unconscious. Meets Modern requirement in French major.

Fren 3034s. MOS: French Poetry and Music. (Hum; 4 cr; prereq or coreq 3011; not offered 2005-06, 2006-07) Survey of French poetry and music with emphasis on 19th and 20th century poetry and 20th-21st century music. Studying music enhances understanding of the fundamentals of verse, including rhyme, meter, and sound. Meets Modern requirement in French major.

Francophone Studies: Courses with a Francophone Studies designator (FRS) in the title examine the literature, film, history, and cultures of French-speaking populations living in Africa, North America, the Caribbean, and Asia.

Fren 3041f. FRS: Francophone Worlds. (IP; 4 cr; prereq or coreq 3011 or #; not offered 2006-07) Readings in a variety of cultural and literary texts from among French-language writers of Africa, the Caribbean, Asia, North America, and Europe; study of issues of national identity, race, gender, and postcolonial consciousness. Meets Francophone requirement in French major.

Fren 3042s. FRS: Contes francophones. (IP; 4 cr; prereq or coreq 3011 or #; not offered 2006-07) Study of the oral tale in African and Caribbean cultures. Examination of the form of these tales, their thematic structure, and how these tales have been translated into written and/or cinematographic texts. Meets Francophone requirement in French major.

Fren 3043s. FRS: Littérature migrante. (IP; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) Examination of texts written by people on the move: immigrants, migrants, people in exile. How do their texts move with them? How do these movements challenge national paradigms? Meets Francophone requirement in French major.

Fren 3044f. FRS: L’Amérique francophone. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) Survey of literary texts and movements in Francophone North America, including Quebec and Louisiana, as well as the history of French exploration of the New World. A discussion of the cultural tensions that have threatened and continue to shape Francophone identity in North America. Meets Francophone requirement in French major.

Fren 4011s. Thème et Version: (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) The art of translation applied to everyday discourse, literary texts, and a number of professional fields: journalism, international business, and political, social, and natural sciences with a particular emphasis on specialized vocabularies and advanced grammar and syntax.

Fren 4021f. French and Francophone Theater. (Hum; 4 cr; prereq or coreq 3011 or #; not offered 2005-06, 2006-07) The study of theatrical texts of France and other French-speaking countries, including the history of theater, various theatrical movements, and the political nature of theatrical texts. Some oral interpretation is included.

Fren 4901s. Senior Seminar. (4 cr; prereq completion of 32 cr toward the French major; must be taken on campus) A capstone experience for majors, consisting of a substantial scholarly or creative work (at the undergraduate level) within the discipline. Conducted as a seminar.
**Geography (Geog)**

This discipline is in the Division of the Social Sciences.

**Objectives**—Geography courses focus on basic concepts of the field and deal with both societal relationships and the physical environment. Geog 2001 satisfies the geography requirement for students seeking secondary school teaching licensure in the social sciences.

**Course Descriptions**

Geog 2001s. Problems in Geography. (Env; 4 cr; offered when feasible)

Basic concepts and questions in the field of geography. The terminology and approaches of geographical inquiry and analysis, with emphasis on the spatial patterns and arrangements of human interaction with the landscape and the production of geographical knowledge.

**Geology (Geol)**

This discipline is in the Division of Science and Mathematics. Geology currently offers courses that satisfy a variety of requirements as well as a curriculum leading to a bachelor of arts degree in geology.

**Objectives**—The geology curriculum serves those interested in a broader knowledge of their natural environment and the geological sciences as part of their liberal arts education; provides a firm foundation in geology, related sciences, and mathematics for students interested in the investigation and solution of geologic problems; prepares students for graduate study in the geosciences and related areas; provides the necessary background in earth science for those who plan to teach in this field at the secondary level; and serves those in other professional or interdisciplinary programs who need geology as a related subject.

**Major Requirements**

Geol 1101 — Physical Geology
Geol 2101 — Mineralogy and Crystallography
Geol 2111 — Igneous and Metamorphic Petrology
Geol 2121 — Sedimentology and Stratigraphy
Geol 3101 — Structural Geology
Geol 3196 — Geology Field Camp
Geol 4901 — Geology Senior Seminar
Geol 4902 — Geology Senior Seminar Presentations

10 additional credits in Geol courses at 2xxx or above

Chem 1101 — General Chemistry I
Chem 1102 — General Chemistry II
Math 1101 — Calculus I

Minimum of 7 credits, chosen through consultation with a geology adviser, from appropriate natural science, biology, computer science, physics, chemistry, mathematics, or statistics courses

Up to 8 credits of coursework with a grade of D may be used to meet the major requirements if offset by an equivalent number of credits of A or B.

Students planning to pursue graduate studies in the geological sciences should take the following courses:

Geol 2151 — Historical Geology: Earth History and Changing Scientific Perspectives
Math 1102 — Calculus II
CSci 1301 — Problem Solving and Algorithm Development I

**Minor Requirements**

Geol 1101 — Physical Geology
Geol 2101 — Mineralogy and Crystallography
Geol 2111 — Igneous and Metamorphic Petrology
Geol 2121 — Sedimentology and Stratigraphy
Chem 1101 — General Chemistry I
Chem 1102 — General Chemistry II

8 additional credits in Geol courses numbered 2xxx or above; a maximum of 3 credits of directed study may be used to satisfy elective requirements

Up to 8 credits of coursework with a grade of D may be used to meet the minor requirements if offset by an equivalent number of credits of A or B.

**Teacher Preparation Requirements**

Students pursuing teaching licensure in earth and space science 9-12 should refer to the Education, Secondary (SeEd) section of this catalog.
Course Descriptions

Geol 1001s. Environmental Geology: Geology in Daily Life. (Sci; 4 cr; may not count toward geol major or minor)
Effects of volcanoes, earthquakes, and floods on humans and civilization; geologic problems associated with rural and urban building, waste management, and waste disposal; the importance of geologic knowledge in the discovery of fossil fuels and mineral resources. (4 hrs lect)

Geol 1011f. Geology of the National Parks. (Sci; 4 cr; may not count toward geol major or minor; offered when feasible)
Exploration of the fundamental aspects of the geosciences: earth materials, geologic time, plate tectonics, and the evolution of landscapes by examining the geology and geologic history of the U.S. national parks. (4 hrs lect)

Geol 1012f. Oceanography. (Sci; 4 cr; may not count toward geol major or minor; not offered 2004-05)
Physiography and geological evolution of ocean basins; marine sedimentation; coastal processes and environments; chemical evolution, and chemical and physical properties of seawater; ocean-atmosphere interactions; deep-ocean circulation; waves and tides; marine ecosystems. (4 hrs lect)

Geol 1101f,s. Physical Geology. (Sci-L; 4 cr)
Introduction to the materials that make up the Earth and the structures, surface features, and geologic processes involved in its origin and development. Lab work includes study of the major constituents of the Earth’s crust, including the important rocks and minerals; study of surface and geologic features using aerial photographs, topographic maps, and satellite imagery. (3 hrs lect, 3 hrs lab)

Geol 2101f. Mineralogy and Crystallography. (Sci-L; 4 cr; prereq 1101; Chem 1101 or #)
Classification, identification, physical and chemical properties, origin and natural occurrence of major mineral groups. Lab study of crystal systems by use of models; introduction to optical aspects and physical and chemical testing. (3 hrs lect, 6 hrs lab and field trips)

Geol 2111s. Igneous and Metamorphic Petrology. (Sci-L; 4 cr; prereq 2101)
Classification, composition, genesis, and natural occurrence of igneous and metamorphic rocks; lab study and identification of rocks by various macroscopic, microscopic, and chemical means. (3 hrs lect, 6 hrs lab and field trips)

Geol 2121f. Sedimentology and Stratigraphy. (Sci-L; 4 cr; prereq 2101)
Processes of sedimentation, including origin, transportation, and deposition of sediments; interpretation of sedimentary environments. Principles of stratigraphy and their applications. Lab work includes sedimentary particle analysis; stratigraphic sections; and interpretation of ancient sedimentary environments based on stratified sequences of sedimentary rock. (3 hrs lect, 3 hrs lab and field trips)

Geol 2131s. Geomorphology. (Sci; 4 cr; prereq 1101; not offered 2005-06)
Study of the Earth’s surface and surficial processes; weathering, erosion, and deposition, and the resulting landforms and products; the history of the study of landforms in the United States. (3 hrs lect, 3 hrs lab and field trips)

Geol 2141f. Glacial and Quaternary Geology. (Sci; 4 cr; prereq 1101; not offered 2005-06)
Glaciers, glaciology, glacial deposition, glacial erosion; climatic change and the growth and advance of ice sheets; effect of glaciations on flora and fauna. (3 hrs lect, 3 hrs lab and field trips)

Geol 2151s. Historical Geology: Earth History and Changing Scientific Perspectives. (Sci-L; 4 cr)
Development of fundamental theories and principles of geology, including stratigraphy, uniformitarianism, geologic time, evolution, and plate tectonics. Emphasis on how geological thought has evolved through time as the scientific, religious, and political climate has changed. Discussion of the Earth’s history and science’s changing views of the Earth; continental movements, mountain building, and the evolution and development of organisms and ecosystems. Lab experience on methods of interpreting Earth’s history from rocks, fossils, and structures and solving geological problems. (3 hrs lect, 3 hrs lab)

Geol 3001. Global Tectonics. (Sci; 4 cr; prereq #)
Internal structure and composition of the earth; geometry and motion of lithospheric plates; geological and geophysical processes at plate boundaries; evolution of mountain belts; heat flow, thermal convection, and the driving mechanism for plate movement.

Geol 3101s. Structural Geology. (Sci-L; 4 cr; prereq 2111 or #)
Elementary concepts of stress and strain, theory of rock deformation; description and classification of structures in the Earth’s crust; application of geometric, analytical, and map interpretation techniques to solving structural problems; field mapping problems. (3 hrs lect, 3 hrs lab and field trips)

Geol 3111s. Introduction to Invertebrate Paleontology. (Sci-L; 4 cr; prereq 1121 or #; not offered 2005-06)
Morphology and evolutionary record of the major invertebrate groups characterized by significant fossil representation. Principles of evolution, paleoecology, and paleoenvironmental interpretations of fossil assemblages. (3 hrs lect, 3 hrs lab)

Geol 3196. Geology Field Camp. (Sci; 6 cr; prereq 2121, 2151, 3101)
Identification and solution of geological problems in the field, including stratigraphic correlation, construction of cross sections and geologic maps, report preparation, field mapping, structural analysis, and environmental interpretation of Precambrian and Paleozoic rock units. Offered only during summer at a 6-week residential camp.

Geol 3401f. Geophysics. (Sci; 4 cr; prereq Math 1101, Phys 1101 or #; not offered 2006-07)
Propagation of seismic waves, earthquake seismology, and the structure of the Earth; the origin and nature of the Earth’s magnetic and gravitational fields; the Earth’s internal production and flow of heat; composition, state, and rheology of the Earth’s interior; plate tectonics and elementary geodynamics. (4 hrs lect)

Geol 3411s. Advanced Stratigraphy: Subsurface Methods. (Sci; 4 cr; prereq 1101, 2121 or #; not offered 2005-06)
Techniques and methods of investigating subsurface geologic and stratigraphic features. Includes a discussion of drilling methods, subsurface mapping methods, and techniques for interpreting subsurface geologic trends. (2 hrs lect, 4 hrs lab)
The German (Ger) curriculum is to introduce students to the language, literature, and culture of German-speaking countries. The courses are designed to promote a global perspective by encouraging students to take a close look at another culture and in this way become aware of both the diversity and similarity among all people. The courses satisfy general education and major/minor requirements and prepare students for teaching or graduate study.

**Objectives**—Students develop a number of skills in German, including comprehension and speaking, reading and writing, in order to communicate effectively in German about everyday situations, literature, and culture. On all levels, students gain an awareness of the structure of languages and facility with the German idiom, enabling them to read and write reports and papers. In literature seminars, students learn aesthetic appreciation through the interpretation of texts and to organize their thoughts for effective argumentation. Many German courses give students an interdisciplinary perspective, using history, art, architecture, music, and film. Cultural immersion abroad increases fluency and proficiency. The German program prepares its graduates for careers in teaching, business, political science, medicine, music, psychology, philosophy, and law.

**Major Requirements**

- **Ger 2001**—Intermediate German I
- **Ger 2002**—Intermediate German II
- **Ger 2011**—German Conversation and Composition
- **Ger 3011**—Readings in German
- **Ger 3101**—Survey of German Literature and Culture I
- **Ger 3102**—Survey of German Literature and Culture II

**At least one from:**

- **Ger 3201**—Periods: German Classicism
- **Ger 3202**—Periods: German Romanticism
- **Ger 3203**—Periods: German Modernism

Three additional elective 3xxx courses (4 credits each) in German

Courses with grades of D may not be used to meet the major requirements.

**Minor Requirements**

- **Ger 2001**—Intermediate German I
- **Ger 2002**—Intermediate German II
- **Ger 2011**—German Conversation and Composition
- **Ger 3011**—Readings in German
- **Ger 3101**—Survey of German Literature and Culture I
- **Ger 3102**—Survey of German Literature and Culture II

Two additional elective 3xxx courses (4 credits each) in German

Courses with grades of D may not be used to meet the minor requirements.
Division Structure and Course Descriptions

Teacher Preparation Requirements

Students seeking teaching licensure in German K-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Required Proficiency/Placement Examination—Students who plan to complete courses in the same language they studied in high school must take the proficiency/placement examination and abide by the placement recommendation. If, after an initial exposure to the recommended course, the placement seems inappropriate, students may follow the recommendation of their language instructor as to the proper entry course.

Study Abroad

In light of today’s increasingly interdependent world, the UMM German faculty endorses study abroad, in combination with a German major or minor, as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one’s world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

Study in Austria and Germany — Students interested in a foreign study experience may spend a semester or a full year in Berlin (Humboldt University), Vienna (Center for Central European Studies), or Freiburg (University of Freiburg) through the Institute of European Studies. Language prerequisites vary for individual programs. Internships are available in all of them. Through the Learning Abroad Center, students may also participate in bilateral exchanges to Austria with Karl Franzens University in Graz and with the University of Salzburg.

Course Descriptions

Ger 1001f. Beginning German I. (FL; 4 cr)
Introduction to German as it is spoken and written presently. The course acquaints students with the basic sounds, structures, and vocabulary of German and enables them to understand, read, and write the language and to communicate in German about everyday situations. It makes them aware of the relationship between culture and language.

Ger 1002s. Beginning German II. (FL; 4 cr; prereq 1001 or placement or #)
Continuation of 1001.

Ger 2001f. Intermediate German I. (IP; 4 cr; prereq 1002 or placement or #)
The skills of listening, reading, and writing are enforced through grammar review and discussion of modern texts.

Ger 2002s. Intermediate German II: German Culture and Civilization. (IP; 4 cr; prereq 2001 or #)
A variety of readings in German to examine the historical and contemporary aspects of the culture of German-speaking countries. Students give oral reports and write papers about art, architecture, literature, philosophy, or music. They keep a journal of visits to sites on the World Wide Web relevant to topics such as geography, history, and culture.

Ger 2011f. German Conversation and Composition. (IP; 4 cr; prereq 1002 or #; may enroll concurrently with 2001)
This course builds on grammar and structure learned in the beginning sequence. Students engage in discussions about daily activities and topics of their interest. Models for writing and speaking are provided in the form of short stories, newspaper articles, and literary excerpts. Visual materials serve as points of departure for conversation and composition.

Ger 3011s. Readings in German. (IP; 4 cr; prereq 2011 or #; may enroll concurrently with 2002; soph or higher recommended)
Students read and analyze modern texts in order to advance their ability to comprehend and discuss various literary styles. This course is a prerequisite for more advanced courses in the major and minor.

Ger 3031. German Play. (ArtP; 4 cr; prereq 2001 or #; offered when feasible)
Reading, study, and presentation of a short contemporary play. Enhances fluency and familiarity with the modern German idiom.

Ger 3041. New German Cinema. (IP; 4 cr; prereq 3011; offered when feasible)
Same as Hum 3041. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Ger 3042. Weimar Film. (IP; 4 cr; prereq 3011; offered when feasible)
Same as Hum 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Ger 3101f. Survey of German Literature and Culture I. (Hum; 4 cr; prereq 3011 or #)
Chronological study of German literature and its cultural background from the early beginnings through the 18th century. Selected representative works are read and analyzed.
Ger 3102s. Survey of German Literature and Culture II. (Hum; 4 cr; prereq 3101 or #)
Chronological study of German literature and its cultural background from the 18th century to the 20th century. Selected representative works are read and analyzed.

Ger 3201s. Periods: German Classicism. (Hum; 4 cr; prereq 3101, 3102 or #; not offered 2006-07)
Readings in aesthetic theory and exemplary works by writers of the period. Texts by Goethe and Schiller are read and analyzed in conjunction with opera librettos based on their works. Modern films and videos of theater performances supplement the readings.

Ger 3202s. Periods: German Romanticism. (Hum; 4 cr; prereq 3101, 3102 or #; not offered 2005-06)
Readings in Romantic theory and works by important authors of the period: Wackenroder, Tieck, Novalis, Eichendorff, and E.T.A. Hoffmann. Other art forms, such as music and painting supplement the literary discussions.

Ger 3203. Periods: German Modernism. (IP; 4 cr; prereq 3101, 3102 or #; offered when feasible)
Explores the culture of German-speaking countries around the turn of the 20th century (1890-1933) through literature, music, and the visual arts, especially as manifested in Symbolism, Secession (Art Nouveau), Expressionism, Dada, and New Objectivity.

Ger 3501s. Women's Issues in Contemporary German Culture. (IP; 4 cr; prereq 3011 or #; offered when feasible)
Same as Hum 3501. Focus is on the German women’s movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Ger 3601f. Studies in German Literature. (Hum; 4 cr; prereq 3011 or #; offered when feasible)
Selected readings in German reflecting modern literary trends. The course examines the cultural politics in the evolution of the literature in the formerly divided Germany, using plays, novels, biography, and documentary reports. It deals with questions of literary theory, history, and sociopolitical structures.

Ger 3611f. Austrian Studies. (Hum; 4 cr; prereq 3011 or #; not offered 2005-06)
Selected readings in Austrian literature from 1875 to 1925, including Marie von Ebner-Eschenbach, Rainer Maria Rilke, Arthur Schnitzler, and Hugo von Hofmannsthal. Historical background for the period through Brigitte Hamann’s biography of Empress Elisabeth and/or Rudolph von Habsburg, the modern musical Elisabeth, as well as the operetta Die Fledermaus and Istvan Szabo’s film Osterb Redl.

Ger 4901s, s. Senior Project. (1-5 cr; repeatable to 10 cr; prereq 3101 or #)
A substantial scholarly or creative work (at the undergraduate level) in conjunction with or upon the completion of another course within the discipline. The senior project is recommended for German majors.

Ger 4993s, s. Directed Study. (1-5 cr per sem; repeatable to 10 cr; prereq approved directed study form)

History (Hist)
This discipline is in the Division of the Social Sciences.

Objectives—The history curriculum is designed to introduce students to the study of the human past. Students majoring in history learn to approach decision-making with an awareness of a broad range of choices; learn to think critically and communicate their ideas effectively; integrate their academic study with their intellectual and moral maturation; understand the construction of historical knowledge; and learn how to learn. The curriculum emphasizes the role of the student as an active learner and encourages individualized learning experiences, including those outside of established coursework, and the development of close working relationships between students and faculty.

Major Requirements
Students should develop a coherent program of study in consultation with their major adviser. The student and adviser must meet to plan the student’s course of study and ensure that the major encompasses breadth across regions and time periods. The student’s plan must involve at least one western and one non-western course. The student must bring a list of history courses completed and ongoing.
When the student applies for graduation the student and adviser must meet

- to document that the student has successfully demonstrated breadth across regions and time periods in the major.
- to discuss ways in which the student perceives history and historical questions as a result of thinking about history at UMM.
- to evaluate what historical skills and knowledge the student has gained while studying history at UMM. Supporting evidence of such skills and knowledge may include successful papers, tutorials, student initiated studies, etc.

The adviser must keep a record of this meeting.
Hist 1101 — Introduction to World History to 1500
Hist 1102 — Introduction to World History Since 1500
Hist 4110-4120 — Tutorial in History

Minor Requirements
Minor requirements include Hist 1101 or 1102 and four additional courses of which at least three are at 2xxx or higher. There should be evidence of work in at least two geographic areas, with at least one of these in a non-Western area.
Courses with grades of D may not be used to meet the minor requirements.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Hist 1101f. Introduction to World History to 1500. (Hist; 4 cr)
Methods, themes, and problems in the study of world history to 1500.

Hist 1102s. Introduction to World History Since 1500. (Hist; 4 cr)
Methods, themes, and problems in the study of world history since 1500.

Hist 1301f. Introduction to U.S. History. (Hist; 4 cr)
Methods, themes, and problems in the study of the history of the United States.

Hist 1402. Women in U.S. History (IP; 4 cr; offered when feasible)
Themes and methods in the history of women in the United States. Topics may include women in the colonial era; American Indian, African American, and immigrant women; sex roles; women and work, family, politics, the law, and religion.

Hist 1501f. Introduction to East Asian History: China, Japan, and Korea before 1650. (IP; 4 cr)
Examination of the social, political, economic, technological, and cultural changes in East Asia before 1650. Possible sub-themes include the rise of the Confucian world order, the spread of Buddhism, and East Asian interactions with the outside world. Discussion of changing perceptions of gender.

Hist 1601s. Latin American History: A Basic Introduction. (IP; 4 cr)
Methods, themes, and problems in the study of Latin American history.

Courses numbered 300x to 301x consider topics that transcend traditional chronological categories.

Hist 3001. Families Through the Prism of Memory, Genealogy, and History. (Hist; 4 cr)
Historical and genealogical approach to the study of family.

Hist 3003. World War I. (Hist; 4 cr; offered when feasible)
Historical examination of World War I.

Hist 3004. Africa to 1700. (Hist; 4 cr; offered when feasible)
History of Africa to 1700.

Hist 3005. Africa Since 1700. (Hist; 4 cr; offered when feasible)
History of Africa since 1700.

Hist 3007. The Invention of the University in Medieval Europe. (Hist; 4 cr; offered when feasible)
An examination of the university. Who studied and taught at these various institutions and why? What was studied and why? How were these studies sponsored and organized and what purpose(s) did they serve? To what extent do modern universities derive from these medieval institutions?

Hist 3008. Islamic Thought and Culture, 500-1000 CE. (Hist; 4 cr; offered when feasible)
Examines the many cultural achievements of early Islam, including contributions to astronomy, mathematics, and philosophy; a massive translation movement to preserve Greek texts; and the extension of broad political and intellectual liberties to people of various religious faiths. Special attention paid to Muslim-controlled Spain, which became a medieval cultural center, drawing Christian scholars from throughout Europe.

Hist 3009s. Microhistory. (Hist; 4 cr; not offered 2007-08)
An in-depth historical examination of one or more locales and their relationship to broader historical phenomena.

Courses numbered 310x to 311x consider topics in the political, social, intellectual, religious and/or economic history of Europe before 1750.

Hist 3101. Renaissance and Reformation. (Hist; 4 cr; offered when feasible)
Italian and Northern Renaissances as cultural, economic, and political phenomena; the Reformation as a religious and political movement.

Hist 3102. Early Modern Europe to 1750. (Hist; 4 cr)
Survey of historical developments in Europe from about 1350 to 1750.

Hist 3103. Medieval Europe. (Hist, 4 cr; offered when feasible)
Survey of historical developments in Europe from about 500 to 1500.

Hist 3105f. Early Medieval Europe. (Hist; 4 cr; offered when feasible)
Survey of historical developments in Europe between 500 and 1100.

Hist 3106s. Late Medieval Europe. (Hist; 4 cr; offered when feasible)
Survey of historical developments in Europe between 1100 and 1500.

Courses numbered 315x to 316x consider topics in the political, social, intellectual, religious and/or economic history of Europe since 1750.

Hist 3151. Modern Europe. (Hist; 4 cr; offered when feasible)
History of modern Europe emphasizing political, economic, social, and intellectual developments since 1789.

Hist 3152. Modern Middle East from Imperialism to Independence, 1876-1948. (Hist; 4 cr; offered when feasible)
History of the modern Middle East with emphasis on the region’s cultures and relations with the West.

Hist 3154. The Scientific Revolution. (Hist; 4 cr; offered when feasible)
Course readings focus upon several questions: Is there a basis for the common belief that religion and science share a mutual antagonism? How did new knowledge about the physical world differ from received traditions and why was this important? Was there a built-in sexism in the new science as suggested by Bacon’s prose?
History

Hist 3155. Science, Technology, and Warfare in the 20th Century. (Hist; 4 cr; offered when feasible)
From WWI through the Persian Gulf War, technology and warfare have grown in sophistication. Examination of how warfare benefits from technology and how technology sometimes benefits from warfare. Special attention to Nazi science and technology.

Hist 3156. Modern German Intellectual History. (Hist; 4 cr; offered when feasible)
Examination of German intellectual history from 19th- and 20th-century philosophical, literary, and scientific sources. Reading of translated excerpts from Schopenhauer, Nietzsche, Kafka, Rosa Luxemburg, Clara Zetkin, Einstein, Neils Bohr, and others. Consideration of Nazi propaganda and the use of science and pseudoscience by the Third Reich.

Hist 3157. Modern Russian Intellectual History. (Hist; 4 cr; offered when feasible)
Examination of Russian intellectual history from 19th and 20th-century philosophical, literary, and scientific sources. Reading of translated excerpts from Tolstoy, Dostoevsky, Pushkin, Pavlov, Anna Akhmatova, Alexander Solzhenitsyn, and others.

Hist 3158. Women in Science, 1650-1950. (Hist; 4 cr; offered when feasible)
Examines the roles women have played in the formation of modern science. Analysis of Francis Bacon (c 1625) and his allegedly sexist language. Differences between the Royal Society of London and the French Academy of Sciences regarding women. Consideration of a range of medical devices, including the stethoscope, designed specifically to treat women. Analysis of contributions to physics made by Marie Curie, Lise Meitner, and others to the early 20th-century’s revolution in physics.

Courses numbered 320x to 321x consider topics in the political, social, intellectual, religious, and/or economic history of selected European nations.

Hist 3202. Russian Revolution. (Hist; 4 cr; offered when feasible)
History of the Russian Revolution. Origins, the March and October Revolutions, the Civil War, and beginnings of Communist rule.

Hist 3204. Nazi Germany. (Hist; 4 cr; offered when feasible)
History of Nazi Germany. Social and political origins, Nazi rule in the 1930s, the “final solution,” World War II, and Germany’s attempt to assess this era in its history.

Hist 3207. The Crusades. (Hist; 4 cr; offered when feasible)
The European crusades from 1000-1500, with emphasis on diverse responses particularly, by both Muslims and Christians.

Hist 3208. Modern Britain. (Hist; 4 cr; offered when feasible)
Examination of British history from the late 18th century until the conclusion of World War I. Primary focus on the effects of the industrial revolution on society. Particular emphasis on how these changes affected the working classes, including their growing ability to participate in the political process.

The experience of the original Americans and their interaction with later immigrants.

Courses numbered 330x to 331x consider topics in the political, social, intellectual, religious, and/or economic history of North America or the United States before 1865.

Hist 3301f. Red, White, and Black: Race and Culture in Early America. (HDiv; 4 cr; not offered 2006-07)
History of race in early America. Exploration of the coming together of three groups of peoples—Africans, American Indians, and Europeans—and the roles which they played in the emergence of the “first new nation.”

Hist 3302. African American History to 1865. (HDiv; 4 cr; offered when feasible)
The African-American experience in historical perspective: African origins; slavery, struggles for freedom and equality; cultural, economic, political, and social development in a slave society.

Courses numbered 335x to 336x consider topics in the political, social, intellectual, religious, and/or economic history of the United States since 1865.

Hist 3351s. The U.S. Presidency Since 1900. (SS; 4 cr; not offered 2005-06)

Hist 3352. The U.S. 1960s. (Hist; 4 cr; offered when feasible)
History of the United States in the 1960s. Backgrounds to the 1960s; political and cultural issues of the decade; the Kennedy promise, civil rights and other movements, Vietnam War, counterculture, conservative backlash, and legacy.

Hist 3353. World War II. (Hist; 4 cr; offered when feasible)
Origins, political and military aspects of the war in Europe and Asia, domestic mobilization, the Holocaust and Atomic Bomb, aftermath.

Hist 3355s. U.S. in Transition, 1877-1920. (Hist; 4 cr; not offered 2006-07)
Topics, themes, and problems in U.S. history, 1877 to 1920.

Hist 3356s. Civil Rights Movement, 1954-1974. (Hist; 4 cr; not offered 2005-06)
Background of the Civil Rights movement, emergence of the theory and practice of nonviolence, various Civil Rights groups, role of women, legislative and other accomplishments of the movement, its aftermath and influence.

Hist 3357. African American History Since 1865. (HDiv; 4 cr; offered when feasible)
The African-American experience in historical perspective: the emancipation era; struggles for freedom and equality after slavery; cultural, economic, political and social development in an industrial and post-industrial society.

Hist 3358s. Civil War and Reconstruction. (Hist; 4 cr; not offered 2005-06)
Origin, context, and significance of the Civil War and Reconstruction.
Exploration of the events and policies that sought to eliminate American Indian communities and cultures and the strategies that American Indians developed to survive. Students gain insight into a pivotal time for the “incorporation” of the U.S. and ongoing tensions between unity and diversity that characterize the nation’s political economy and social structure. Paradoxes under scrutiny include the degree to which policies claiming to emancipate actually imprisoned and prisons became homelands.

Courses numbered 345x to 346x consider topics and themes in U. S. history that transcend traditional chronological categories.

Hist 3451f. Facing West. (HDiv; 4 cr; not offered 2005-06)
History of the American West. What is the West to the United States? Examination of the meaning of the West as both place and process for U.S. history; exploring the distinctive role that the West has played in the development of the United States from 1790 to the 21st century. Special emphasis on the interplay between different peoples in the vast and varied region.

Hist 3452. Minnesota History. (Hist; 4 cr; offered when feasible)
Examination of the social, cultural, and political history of Minnesota with emphases on Native American and European American conflict, immigration and ethnicity, the development of political culture, and the changing nature of regional identity.

Hist 3453. The American Presidency, 1789-1900. (Hist; 4 cr; not offered 2006-07)
Growth and development of the U.S. presidency during its first century. Emphasis on selected presidencies such as those of George Washington, Thomas Jefferson, Andrew Jackson, James K. Polk, Abraham Lincoln, and William McKinley.

Hist 3455. The American Immigration. (Hist; 4 cr; offered when feasible)
The role of voluntary migration in U.S. history from the late 18th century to the present. Emphases on settlement, ethnicity, nativism, transnational issues, and immigration law. Possible topics include European immigrants and “whiteness,” restriction of immigration from Asia, ethnicity and U.S. foreign and military policy, and the varieties of immigration, legal and undocumented, since 1965.

Hist 3456. History of Religion in America. (Hist; 4 cr; offered when feasible)
The history of religion in American life from the perspective of ordinary Americans. Religious diversity receives special emphasis. Topics may include New England witchcraft, the First and Second Great Awakenings, Native American belief systems, nativism and Anti-Catholicism, religion and politics, immigrant religion, and new fundamentalist movements.

Hist 3457. American Biography and Autobiography. (Hist; 4 cr; offered when feasible)
Seminar and readings in biography and autobiography; a long paper on an aspect of the biography of an American of the student’s choice.

Hist 3458. Public History. (Hist; 4 cr; offered when feasible)
Introduction to methods and approaches to public history, drawing from the West Central Historical Research Center and UMM archives.

Hist 3462. A History of Rural America. (Hist; 4 cr; offered when feasible)
The history of the rural United States from the beginning of European settlement to the present. Primary focus is on average people—farmers and townsfolk—and the impact of economic change on social and political life. Special attention to the varied response of different groups of rural Americans—immigrants, women, African Americans—to changes within American agriculture. Includes a research component.

Courses numbered 355x to 356x consider topics in the political, social, intellectual, religious and/or economic history of selected Asian nations.

Hist 3551f. Modern Japan. (IP; 4 cr; not offered 2006-07)
The history of Japan from the foundation of the Tokugawa Shogunate until the present. Special attention to issues of gender, nationalism, and modernity.

Hist 3552s. History of China. (IP; 4 cr; offered when feasible)
Study of the history of China from the foundation of the Qing dynasty in the 1600s until the present. Special attention to issues of gender, nationalism, and modernity.

Hist 3554f. Korean History. (Hist; 4 cr; not offered 2006-2007)
The history of the Korean peninsula from neolithic times to the present. Special attention to evolving Korean understandings of gender and technology.

Courses numbered 360x to 361x consider topics in the political, economic, social, intellectual, religious and/or economic history of Latin America.

Hist 3601f. Great Books in Latin American History. (IP; 4 cr)
A look at Latin American history through great books.

Hist 3606f. Ancient Maya Civilization. (Hist; 4 cr)
Introduction to Maya cultural traditions from earliest traces of settlement through Spanish conquest in the 16th century. Archaeological, ethnographical, and historical approaches used to reconstruct ancient Maya civilization.

Courses numbered 370x to 371x consider topics in the political, economic, social, intellectual, religious and/or economic history of women.

Hist 3701. Women and Religion: A History. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
A historical discussion of women in non-Western and Western religions.

Hist 3702. The History of Women in the West. (HDiv; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Focuses on the intellectual as well as political, social, and economic history of pre-European, western European, and American women.

Hist 3703. 20th-Century European Women. (Hist; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Social history of 20th-century European women.
Hist 3704. Women in the Middle Ages. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible) Examination of lives of women in Europe from about 500 to 1500.

Hist 3706. Women in Early Modern Europe. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible) Examination of lives of women in Europe from about 1350 to 1750.

Hist 3707g. Gender in East Asia. (HDiv; 4 cr; not offered 2006-2007) Study of the changing perceptions of gender in East Asia from its earliest written records until the present. Special emphasis on the changing role of women in East Asia. Exploration of the way gendered discourse affected broader understandings of society, politics, the economy, and culture. Background in East Asian history, while preferred, is not required.

Hist 4110-4120f,s. Tutorial in History. (1 cr–4110, 4 cr–4120; no credit for 4110 until 4120 completed; repeatable to 10 cr; prereq history major) A culminating historical research project. Students who wish to graduate in December must begin this project the preceding spring. Students should register for 4110 before 4120.

Hum 3993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Honors Program

(See Academic Information section for detailed program requirements and a sample course list.)

Humanities (Hum)

This interdisciplinary group of courses is in the Division of the Humanities.

Objectives — Humanities courses are designed to introduce students to their cultural heritage. This interdisciplinary area explores the literatures and other art forms of the world. Advanced courses in the Division of the Humanities supplement the introductory courses.

Course Descriptions

Hum 1001f. Contesting Visions of the American West. (HDiv; 4 cr; offered when feasible) Examines literary and cultural representations of the American West from a range of perspectives, including those of Asian and European immigrants, explorers, and Native Americans.

Hum 1002. Norse Saga. (Hum; 4 cr; offered when feasible) Study of medieval sagas, in translation, from Iceland and Norway, and the culture that produced them.

Hum 1003. Background to Literature: The King James Bible. (Hum; 4 cr) Some of the ways that language and themes of the King James Bible have shaped the themes, language, and values in English and American literature.

Hum 1005. Myth and Literature. (Hum; 4 cr) How classical mythology has been used in literature, poetry, drama, and fiction.

Hum 1051s. Greek Drama. (Hum; 4 cr; offered when feasible) Study of Greek drama.

Hum 1054. Backgrounds to Literature: Classical Mythology. (IP; 4 cr) A look at primary texts in Greek and Roman myth and at the ways English and American writers have made use of those myths from the Renaissance to the present.

Hum 1101f. The European Novel. (Hum; 4 cr; offered when feasible) Readings in major continental novelists of the 19th and 20th centuries.

Hum 1302f. French Cinema. (IP; 4 cr; not offered 2005-06) Same as Fren 1302. History of filmmaking in France from the Lumière brothers to the present; introduction to major trends in film theory. Taught in English, all films have English subtitles. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1302.

Hum 1303f. Paris as Text/Image/Sound. (IP; 4 cr; not offered 2005-06, 2006-07) Same as Fren 1303. Explores how representations of Paris in literature, film, music, and photography have been a key to the construction and the lived experience of the city and how new forms of writing, image-making, and sound production have emerged from the modern metropolis. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1303.

Hum 1304f. French Women Authors in Translation. (IP; 4 cr; not offered 2006-07) Same as Fren 1304. French women’s movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1304.

Hum 1311f. West African Francophone Cinema. (IP; 4 cr; not offered 2005-06, 2006-07) Same as Fren 1311. Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1311.

Hum 1361. Literary Representation of India and the Orient. (IP; 4 cr) Examination of literary texts depicting India and the Orient. Discussion of concepts of orientalism, exoticism, and the postcolonial discourse relating to these texts.

Hum 1561. Hispanic Film. (IP; 4 cr; offered when feasible) Viewing, study, and discussion of the most representative Hispanic cinema coming out of Spain, the United States, and Latin America. The form of the cinema and its specific cultural and political context.
Hum 3041. New German Cinema. (IP; 4 cr; offered when feasible)
Same as Ger 3041. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Hum 3042. Weimar Film. (IP; 4 cr; offered when feasible)
Same as Ger 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Hum 3051. Russian Literature. (Hum; 4 cr; offered when feasible)
Study of Russian literature in translation. Special attention to the works of Dostoyevsky, Tolstoy, and Chekhov.

Hum 3501s. Women’s Issues in Contemporary German Culture. (IP; 4 cr; offered when feasible)
Same as Ger 3501. Focus is on the German women’s movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Hum 3993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Interdisciplinary Studies (IS)
This is an interdisciplinary group of courses under the authority of the vice chancellor for academic affairs and dean.

Objectives—Through interdisciplinary studies, students may investigate subjects viewed from the perspectives of two or more traditional academic disciplines. Interdisciplinary studies may take the form of well-structured internships or regular classroom courses, or directed study projects that stimulate close student-faculty relationships.

Students interested in interdisciplinary internships or directed study projects should consult with their advisers and appropriate division chairpersons concerning a course prospectus, proposed study activities, and proposed criteria and methods for evaluating their work. In the case of internships, students should discuss their plans with the director of the Career Center, who assists with internship placements. A signed Directed Study Approval form or Internship Approval form (available on the academic affairs Web site) is required in order to register for an interdisciplinary directed study or internship. The approval of the vice chancellor for academic affairs and dean is necessary to register for an interdisciplinary studies directed study or an internship.

Course Descriptions
IS 1001f. First-Year Seminar: Human Diversity. (FYS; 2 cr)
This first-year course aims to facilitate students’ transition from high school to a collegiate environment. Special emphasis is placed on themes that help sensitize students to the spectrum of ideas within the academic setting as well as contemporary society. Includes an evening convocation in early September and an all-day Jamboree on Thursday during the 12th or 13th week of the term.

IS 1051. Introduction to College Learning Skills. (4 cr; counts toward the 60-cr general ed requirements; prereq participation in Gateway Program; offered summer only; S-N only)
Essential skills for success in higher education.
Introduction to computing technology, writing, and math skills. Academic and social skills needed for transition from high school to college.

IS 1061s. Learning to Learn. (SS; 2 cr; prereq #; S-N only)
Basic learning and thinking skills: procedures for acquiring knowledge and conducting academic inquiry; formulating and evaluating ideas, arguments, and abstract principles. Introduction to elements of the learning process. Assessment of individual approaches and development of individual strategies for learning.

IS 1071f,s. Systematic Introduction to the Art and Science of Emergency Medical Care. (4 cr; prereq registration with the Stevens County Ambulance Service; S-N only)
Introduction to emergency medical care. Develops skills and knowledge to respond appropriately to a medical emergency. (The Stevens County Ambulance Service sets and requires an independent fee.)

IS 1091f. First-Year Seminar: Human Diversity. (FYS; 2 cr)
Description of appropriate technological advances.
Historical development related to technology and its development cycle. Discussion of the ethical and social implications of technology.

IS 2001h. Honors: Traditions in Human Thought. (Hum; 2 cr; prereq participation in Honors Program or #)
A study of a selection of significant works from history, literature, philosophy, science, and religion across continents from the earliest writings to the present day. Critical reading, writing, and discussion in an interdisciplinary context are emphasized.

IS 3111h.s. Honors: The End of the World as We’ve Known It: The Apocalypse Then and Now. (SS; 2 cr; prereq participation in Honors Program or #; offered when feasible)
Exploration of the occasions and representations of apocalyptic views, focusing on the historical, political, and psychological implications. Antecedents and effects of end-of-the-world prophecies are explored through the use of popular culture (e.g., music, science fiction, other media), writings from across cultural and religious frames of reference, and various historical, political, and psychological resources.
An examination of ways of constructing and perceiving order in the Middle Ages, primarily from scientific, literary, and historical perspectives. Topics include ideas of universal and natural order, moral/spiritual order, religious order, social order, and artistic order.

A cross-section of the cultural and intellectual history of the 18th century. Figures to be studied may include Descartes, Newton, Locke, Hume, Hobbes, Rousseau, Voltaire, Lavosier, d’Holbach, and Blake.

Exploration of “sustainability” from the perspective of economics and ecology. Examples might include ocean fisheries, the rain forest, the introduction of alien species, and the global climate.

Examination of the medical, philosophical, and literary treatment of the human body in early modern Europe. Readings from both primary and secondary sources. Texts include works by Rene Descartes, Julien Offray de la Mettrie, William Harvey, “The Oxford Group,” and others.

Introduction to the formal theory of strategic interaction and to the intuitions behind the theory. Applications to a selection of problems in the natural and social sciences, such as biological evolution, tacit collusion in pricing, strategic behavior in international relations, and strategy in legislative voting.

The 1890s are often seen as a cultural watershed for the United States. Depression, political movements, and a “splendid little war” against Spain and the Philippines represent only the surface of a decade which altered aspects of race, class, gender and literary sensibility.

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Division Structure and Course Descriptions

IS 1331. CE: Disability in America: Politics, Art, and Culture(s). (Hum; 4 cr)
Examination of the history of the Disability Rights Movement, the social stigma and stereotypes that have hindered the lives of disabled Americans, and the formation of a disabled identity and its expression in literature and the arts.

IS 1341. CE: Introduction to World Religions. (HDiv; 3 cr)
Examining the history and contemporary world religions. Focus on eight religions (Hinduism, Buddhism, Confucianism, Taoism, Shintoism, Judaism, Christianity, Islam) and their component elements: creed, cult, code, community, and canon. Exploration of other religious traditions including Native American, African, goddess, earth-based, and New Age.

IS 2011f,s. CE: English Language Teaching Assistant Program. (IP; 12 cr; S-N only)
Students assist teachers of English in one of several countries where English is not the primary language. Assignments are for eleven weeks. Housing and board are provided or subsidized by the host school.

IS 3110. CE: Rural Community Field Project: Center for Small Towns. (SS [if taken for 2 or more cr]; 1-6 cr; prereq #; S-N only)
An educational experience in a rural learning environment that focuses on rural issues of community life, demography, culture, environment, and policy. A collaborative effort between Center for Small Towns and a public rural entity provides a structured environment in which civic engagement objectives are achieved and grounded in a practical setting. Students gain a valuable understanding about the historical social structures of rural society and witness these structures firsthand.

Italian (Ital)

This discipline is in the Division of the Humanities. The Italian discipline introduces students to the study of the language, literature, and culture of Italy. The courses satisfy foreign language and other general education requirements.

Objectives—The Italian discipline is designed to help students develop a number of skills in Italian, including comprehension and speaking, reading, and writing, in order to communicate effectively in Italian on a broad range of topics. The courses are designed to help students develop critical insight into the philosophy and values of another culture as they increase their competence in a second language.

Study Abroad

In light of today’s increasingly interdependent world, the UMM Italian discipline endorses study abroad as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one’s world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

Course Descriptions

Ital 1301f. CE: Beginning Italian I. (FL; 4 cr)
Introduction to Italian as it is presently spoken and written. Basic sounds, structures, and vocabulary of Italian. Understanding, reading, and writing the language and communicating in Italian about everyday situations. Relationship between culture and language.

Ital 1302s. CE: Beginning Italian II. (FL; 4 cr; prereq 1301 or placement or #)
Continuation of 1301.

Ital 1311. CE: Modern Italy Through Literature and Film. (Hum; 3 cr)
Examination of the political, social, and cultural transformations of Italy from its unification in the second half of the 19th century to contemporary issues of immigration and multiculturalism as reflected in literature and film. Topics include the unification and forging a new national identity; life under Fascism; the Resistance and post-war period; the “southern question;” the “economic miracle” of the 1960s; recent immigration and current cultural transformations.

Ital 1321. CE: Intermediate Italian I. (IP; 4 cr; prereq 1302 or #)
Continued development of listening, reading, writing, and speaking skills; review of the fundamental elements of the Italian language. Emphasis on authentic cultural and literary texts appropriate to this level.

Ital 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Latin American Area Studies (LAAS)

This is an interdisciplinary major under the authority of the vice chancellor for academic affairs and dean. The program is administered by the coordinator of Latin American Area Studies. Students must enroll through the LAAS coordinator.

Objective—To provide a basic introduction to the cultures and societies of Latin America, to provide the means essential to gain an understanding of Latin America and its diverse peoples, and to place Latin America in a comparative perspective.

Major Requirements

Proficiency in Spanish equivalent to that required for the completion of Span 2002.
4 credits in Latin American history (Hist 1601—Latin American History: A Basic Introduction or its equivalent).
Latin American Area Studies

1 credit in LAAS 3201 — Bibliographical Tools and Journals in Latin American Area Studies.
Hist 3601 — Great Books in Latin American History
1-4 credits in LAAS 4101 — Senior Tutorial in Latin American Area Studies taken together with Hist 3601.
1 credit per semester, after enrolling in the major and when in residence, in LAAS 3100 — Contemporary Latin America; no more than 4 credits can be applied to the LAAS major, and up to 4 credits can be applied to the 20-credit elective requirement.

20 additional credits selected from the courses listed below; these courses must come from at least three different academic disciplines. Students are encouraged to use elective credits to acquaint themselves with as many academic fields of Latin American studies as possible. Courses and directed studies not listed below may be approved by the LAAS coordinator, provided the subject matter is appropriate for the major. These courses may be applied to the 20-credit elective requirement. Students may have up to a two-course overlap with any other major. Additional overlap is possible, but must be approved by the LAAS coordinator.

Course Descriptions

Anth 2301s. Social Change and Development in Latin America. (IP; 4 cr; prereq 1111 or Soc 1101 or #)
Same as Soc 2301. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Anth 2302f. Women in Latin America. (IP; 4 cr; prereq 1111 or Soc 1101 or #)
Same as Soc 2302. Study of social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women, etc.

Engl 3301f. U.S. Multicultural and Multiracial Literatures. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
Examination of literature by African American, Native American, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

Engl 3341. Chicana/o and U.S. Latina/o Literatures. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212)
Study of Chicana/o and U.S. Latina/o literature from late 19th century to present and its historical and cultural contexts. Particular attention given to themes of language, identity, land, immigration/migration, and spirituality.

Engl 3342. Chicanas/os and Latinas/os in Film. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212 or #; offered when feasible)
Focus on how Chicanas/os and Latinas/os have been represented in Hollywood films and how Chicana/o and Latina/o writers, actors, and filmmakers have portrayed their people, culture, and various issues in films and writings.

Hist 1601s. Latin American History: A Basic Introduction. (IP; 4 cr)
Methods, themes, and problems in the study of Latin American history.

Hist 3601f. Great Books in Latin American History. (IP; 4 cr)
A look at Latin American history through great books.

Hist 3606f. Ancient Maya Civilization. (Hist; 4 cr)
Introduction to Maya cultural traditions from earliest traces of settlement through Spanish conquest in the 16th century. Archaeological, ethnographical, and historical approaches used to reconstruct ancient Maya civilization.

LAAS 3100f.s. Contemporary Latin America. (1 cr; prereq LAAS major; to be repeated each sem a student is in residence; only 4 cr may apply to LAAS major)
Opportunity for LAAS majors to read about and discuss in historical and cultural contexts the more important contemporary developments in Latin America.

LAAS 3201. Bibliographical Tools and Journals in Latin American Area Studies. (1 cr; prereq LAAS major; offered when feasible)
For the student new to the major. Introduction to the standard bibliographical tools and journals in Latin American area studies.

LAAS 4101. Senior Tutorial in Latin American Area Studies. (1-4 cr; prereq 3201; prereq or LAAS major; offered when feasible)
Individual reading in subjects needing further development before completing the LAAS major. Subjects determined by LAAS faculty in consultation with the senior LAAS major.

LAAS 1993f.s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)
Individualized on- or off-campus research project or other learning activity related to Latin America not covered in the regular curriculum. Topic determined by the student and instructor.

Pol 3504s. Latin American Politics. (IP; 4 cr; prereq 1301 or #)
A comparative examination of central issues in and components of Latin American political life, including economic development, regimes and alliances, guerrilla wars, the armed forces, human rights, and democratic consolidation. Countries may include Argentina, Brazil, Chile, Colombia, El Salvador, and Cuba.

Pol 3505f. Military and Political Development. (IP; 4 cr; prereq 1301 or #)
Explores military intervention in government and the influence of the military on social and economic policies in a variety of regions.

Pol 4507s. Political Violence. (IP; 4 cr; prereq 1301 or #; not offered 2006-07)
Examination of causes, processes, and outcomes of violent social conflict, including repression, mass political protests, riot revolt, terrorism, and revolution.

Soc 2301s. Social Change and Development in Latin America. (IP; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2301. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.
**Span 1001f. Beginning Spanish I.** (FL; 4 cr)
Spanish (reading, speaking, writing, listening) and an introduction to the cultural contexts of Latin America and Spain.

**Span 1002s. Beginning Spanish II.** (FL; 4 cr; prereq 1001 or placement or #)
Continuation of the sequence beginning with 1001.

**Span 2001f. Intermediate Spanish I.** (IP; 4 cr; prereq 1002 or placement or #)
Review and building of the four basic skills in Spanish with emphasis on critical reading skills and writing for communication.

**Span 2002s. Intermediate Spanish II or equivalent.** (IP; 4 cr; prereq 2001 or placement or #)
Continuation of the sequence beginning with 2001.

**Span 2101. Associated Languages: Beginning Nahuatl I.** (FL; 4 cr)
An introduction to the Aztec language, Nahuatl. Emphasis is on written language.

**Span 2102. Associated Languages: Beginning Nahuatl II.** (FL; 4 cr; prereq 2101)
Continuation of 2101.

**Span 2121. Associated Languages: Intensive Portuguese.** (IP; 4 cr; prereq Span 2002 or Fren 2002 or #)
Intensive, accelerated study of the basic skills of Brazilian Portuguese (reading, writing, listening and speaking) with emphasis on oral competency.

**Span 3001f. Spanish Composition and Conversation I.** (IP; 4 cr; prereq 2002 or #)
Further review of the four skills in Spanish, with emphasis on: 1) development of greater competence and confidence in conversational Spanish; 2) greater precision and sophistication in written communication; and 3) analytical proficiency in reading selections from diverse literary and cultural contexts.

**Span 3002s. Spanish Composition and Conversation II.** (IP; 4 cr; prereq 3001)
Continuation of the sequence beginning with 3001.

**Span 3101s. Introduction to Hispanic Literature.** (Hum; 4 cr; prereq 3001, prereq or coreq 3002 for majors)
Study of a variety of literary genres representing the literature of Spain and Latin America; rudiments of literary analysis and interpretation. Students should demonstrate the ability to read and comprehend the literary works studied, analyze works critically while developing a sensitivity toward certain cultural aspects and literary nuances expressed therein; participate in and comprehend sustained class discussion with respect to certain topics or themes; write with accuracy in Spanish and show some degree of analytical proficiency at the short paper level.

**Span 3211. Literature and Culture of Latin America.** (Hum; 4 cr; prereq 3002, 3101)
A study of important exemplary works of Latin American literary and cultural production through major historical periods. Texts are examined in multiple contexts, such as artistic, political, historical, and philosophical.

**Span 3212. Literature and Culture of Spain.** (Hum; 4 cr; prereq 3002, 3101)
A study of important exemplary works of Spanish (peninsular) literary and cultural production through major historical periods. Texts are examined in multiple contexts, such as artistic, political, historical, and philosophical.

**Span 3601. Seminar: Reality Born on Paper in Colonial Latin American Literature.** (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
This course analyzes the multiple roles of writing during the conquest, the colonial period and the era of independence and nation-building, as well as its vital importance in the shaping of Latin American “identity” and in the perception of the people and geography of the region.

**Span 3602. Seminar: Contemporary (Re-)Visions of Colonial Latin America.** (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of the re-reading and re-writing of the Conquest and Colonial periods in Latin America, focusing on how these periods are approached, or fictionally reversed, by contemporary authors. Readings include narrative, poetry and theater written during the 20th century, but based on or inspired by colonial texts.

**Span 3621. Seminar: Confessions and Letters in Latin American Fiction.** (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of confessions and letters in Latin American fiction. Fiction is seen as a combination of texts within other texts. The combination becomes part of the fictional game, which imitates and enhances reality.

**Span 3622. Seminar: Exile and Emigration in Latin American Fiction.** (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of contemporary Latin American literary texts where characters face forms of exile, abandonment and displacement as a result of emigration to Europe and USA.

**Span 3623. Seminar: Ecology and Nature in Latin American Literature.** (Envt; 4 cr; prereq 3002, 3101; offered when feasible)
Study of Latin American texts where authors create characters who read or misread Nature and its preservation or extinction. How globalization is making this issue more relevant in the Latin American context.

**Span 3651. Seminar: Miguel de Cervantes Saavedra’s El ingenioso hidalgo Don Quijote de la Mancha.** (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of Miguel de Cervantes Saavedra’s novel El ingenioso hidalgo Don Quijote de la Mancha in light of its sociohistorical context.

**Span 3652. Seminar: Literary Minorities in Early Modern Spain.** (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of the representative literary works written by or about Spanish, Jewish, and Muslim minorities from the middle ages to the 17th century in light of their respective socio-historical contexts.
Liberal Arts for the Human Services (LAHS)

This interdisciplinary major is in the Division of the Social Sciences.

Objectives—This program’s three main purposes are to provide a firm liberal arts basis for understanding individual human behavior in its social context; provide the liberal arts foundation for professional work in baccalaureate-level human services occupations such as counseling, casework, personnel work, and administration of human services in federal and state agencies, private businesses, or professional organizations; and prepare students for graduate work in the human services professions.

Major Requirements

| Anth 1111 — Introductory Cultural Anthropology | or Soc 1101 — Introductory Sociology |
| Psy 1051 — Introduction to Psychology | Stat 1601 — Introduction to Statistics |
| or Stat 2601 — Statistical Methods |

The minimum additional requirements for a major in liberal arts for the human services are:

a) 40 credits to be selected from the courses listed below, with a minimum of 16 credits each in anthropology/sociology and upper division psychology

b) at least 4 credits of Psy 4896 — Field Experiences in Psychology or IS 3996 — Interdisciplinary Internship

c) IS 4101 — Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services

Students develop a coherent program of study in consultation with their major advisers generally no later than the spring semester of their sophomore year. Advisers normally are faculty with a background or specialties related to the human services area.

Students should discuss the arrangement of their field experience with their LAHS advisers no later than the fall semester of their junior year. Information concerning specific field placements can be obtained from the director of the Career Center or an LAHS faculty adviser.

Because LAHS students pursue varied careers, they are advised to include in their programs courses appropriate to their career plans. For instance, students intending to seek careers involving public administration or policy formulation should take courses such as

- Econ 1111 — Principles of Microeconomics
- Econ 1112 — Principles of Macroeconomics
- Mgmt/Psy 3512 — Group Dynamics
- Mgmt/Psy 3513 — Negotiation

| Span 3653. Seminar: Maria de Zayas: Literary Violence in Golden Age Spain. | (Hum; 4 cr; prereq 3002, 3101; offered when feasible) Study of the major works of 17th-century writer Maria de Zayas y Sotomayor, The Enchantments of Love (1637) and The Disenchantments of Love (1647) in light of their sociohistorical contexts and the political issues surrounding the formation of literary canons. |
| Span 3654. Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature. | (Hum; 4 cr; prereq 3002, 3101) The theme of sex, love, and marriage in Spanish literature through prose, poetry, and theatre of the Golden Age (XVI-XVII centuries) Spain. Consideration of the gender relations and gender politics reflected in the works and the sociohistorical context in which these works were produced. |
| Span 3671. Seminar: Origins of the Spanish Character. | (Hum; 4 cr; prereq 3002, 3101; offered when feasible) Analysis of the Medieval and Golden Age roots of many of the beliefs and attitudes of contemporary Spain. Themes common to Spain, explored in both traditional and modern contexts, may include honor, patriotism, religion, idealism, individuality, satire, love, pride, etc. |
| Span 3672. Seminar: Reform in Spain: The Saint and the Journalist. | (Hum; 4 cr; prereq 3002, 3101; offered when feasible) Analyzing, comparing, and contrasting the lives and writings of St. Teresa of Avila (XVI Century) and Mariano José de Larra (XIX Century) as they worked toward a better Spain. Difficulties of religious and cultural reform as well as differences in traditional and enlightenment values are explored. |
| Span 3681. Seminar: Romanticism and Revolution in 19th-Century Spain. | (Hum; 4 cr; prereq 3002, 3101; offered when feasible) Study of prose and poetry from the first half of the 19th century in Spain, with emphasis on the expression of the Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservatism. |
| Span 3682. Seminar: Realism and Reform in 19th-Century Spain. | (Hum; 4 cr; prereq 3002, 3101; offered when feasible) Study of novels, stories, and essays from the second half of the 19th century in Spain, with emphasis on the rise of realism as an exploration of the sociopolitical reality of the era and the need for reform. The focus will be on general trends in Western cultures (e.g., industrialization, positivism, secularization). |
| Span 3683. Seminar: Modernity and Identity in Spain: 1900-1930. | (Hum; 4 cr; prereq 3002, 3101) Study of prose and poetry from the early decades of the 20th century in Spain with particular emphasis on their responses to changes brought by modernity: advancing technology, modern psychology, political experimentation, spiritual exploration, and artistic innovation. |
| Span 4001. Research Symposium. | (Hum; 4 cr; prereq #; A-F only) A capstone experience for majors, consisting of an introduction to research methods and critical approaches to literature, as well as development of an independent research project and presentation. |
| Spch 3411. Intercultural Communication Theory and Research. | (HDiv; 4 cr; prereq 2101 or #) Study of intercultural communication from an interpersonal and group perspective. |
Pol 3201—Legislative Process  
Pol 3262—Minorities and Public Policy  
Psy 3521—Health Psychology  
Psy 3701—Organizational Behavior  
Soc 2101—Prejudice, Discrimination, and Systems of Oppression  
Soc 3121—Sociology of Gender  
Spch 3411—Intercultural Communication Theory and Research  
Spch 3421—Organizational Communication Theory and Research

For careers in counseling or in other direct helping professions working with adults, students should take courses such as:

Psy 3051—The Psychology of Women and Gender  
Psy 3101—Learning Theory and Behavior Modification  
Psy 3302—Personality  
Psy 3313—Psychopathology  
Psy 3403—Developmental Psychology III: Adulthood, Aging, and Death  
Psy 3501—Social Psychology  
Psy 3521—Health Psychology  
Psy 4101—Helping Relationships  
Soc 3121—Sociology of Gender  
Soc 3141—Sociology of Deviance  
Spch 2071—Introduction to the Principles and Practices of Speech Communication  
or Spch 3431—Interpersonal Communication Theory and Research  
Spch 3411—Intercultural Communication Theory and Research

In all instances, students should consult with their advisers when designing their programs. Students should complete the professional ethics course (IS 4101—Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services) during the year before their internship (IS 3996—Interdisciplinary Internship) or field experience (Psy 4896—Field Experiences in Psychology). Students who plan to enroll in Psy 4101—Helping Relationships should complete the course before their internship or field experience.

Courses with grades of D may not be used to meet the major requirements.

The 40 credits required for the LAHS major are to be selected from the courses listed below. Courses and directed studies not listed below that a student and an LAHS adviser agree are appropriate for the student’s program of study may be approved toward completion of the major.

Course Descriptions

Anth 2101f. Physical Anthropology.  
Anth 2301s. Social Change and Development in Latin America.  
Anth 2302f. Women in Latin America.  
Anth 2402f. Native American Ethnography.

Prehistoric human life and culture. Processes of human evolution. The fossil record linking anatomically modern humans with our earliest hominoid ancestors. Human and other primate evolution and genetics. Includes a 90-minute lab session to be scheduled.

Same as Soc 2301. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and culture change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Same as Soc 2302. Study of social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women, etc.

An analysis of ethnographic and ethnohistoric materials focusing on specific Native American cultures.
Anth 2451f. Contemporary Native Americans. (HDiv; 4 cr; prereq 1111 or Soc 1101 or #; not offered 2005-06)
Same as Soc 2451. The cultures, problems, and resurgence of Native Americans in the 20th and 21st centuries. Government policies; education, religion, self-determination, family, gaming, etc.

Anth 2452s. Native American Women. (HDiv; 4 cr; prereq 1111 or Soc 1101 or #)
Same as Soc 2452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Anth 2501f. Medical Anthropology-An Overview. (SS; 4 cr; prereq 1111 or Soc 1101 or #)
Utilizes an ecological perspective to explore cultural understandings of health and illness in a variety of societies in North America and abroad. Examines the effects of cultural and physical adaptation, nutrition, culture contact, and modernization on the health and well being of people.

Anth 3101f. The Anthropology of Religion. (SS; 4 cr; prereq 1111 or Soc 1101 or #)
Comparative study of religion, magic, witchcraft, etc., in various parts of the world. Theories and concepts developed by anthropologists in dealing with religious phenomena in a cross-cultural perspective.

Anth 3202s. Culture and Biology. (Envt; 4 cr; prereq 1111 or Soc 1101 or #)
Examines the interrelationships between biology and culture, using various cultures in the ethnographic record to assess the applicability of a range of biologically inspired hypotheses for aspects of human behavior and intelligence. The nature-nurture debate.

Anth 3203s. Indigenous Peoples of the World: A Cultural Perspective. (IP; 4 cr; prereq 1111 or Soc 1101 or #; not offered 2005-06)
Same as Soc 3203. Examination of the cultures of indigenous peoples of the Americas, Asia, Africa, and Oceania. Particular attention is paid to processes of assimilation and acculturation, as well as contemporary efforts in identity formation.

Anth 3301s. India and South Asia. (IP; 4 cr; prereq 1111 or Soc 1101 or #)
Examination of the cultures and societies of several South Indian countries with a primary focus on India. Topics include a brief history, economic and social issues and conditions, marriage and kinship practices, religions, regional differences, regional and international conflicts, and cultural and social change.

Anth 3501s. Critical Medical Anthropology. (HDiv; 4 cr; prereq 2501 or #; not offered 2006-07)
An analysis of the role of biomedicine as an increasingly dominant medical system in the world. The factors of race/ethnicity, gender, and social class in the ability to access, negotiate, and influence biomedical practice, beliefs, and research.

Econ 1111f,s. Principles of Microeconomics. (SS; 4 cr; prereq high school algebra or #)

Econ 1112f,s. Principles of Macroeconomics. (SS; 4 cr; prereq high school algebra or #)
Introduction to basic economic problems, concepts, and theoretical models. U.S. economic institutions and the economic organization of society. The role of markets in the production and distribution of societal resources. Measurement of economic performance; national income, inflation and unemployment; competing macroeconomic theories and stabilization policies.

Econ 3201f. Microeconomic Theory. (SS; 4 cr; prereq 1111, Math 1101 or #)
Analytical approach to decision making by individual economic units in the output and input markets, under perfect and imperfect market conditions. Externalities and role of government.

Econ 3202s. Macroeconomic Theory. (SS; 4 cr; prereq 1112, Math 1101 or #)
The theory of national income determination; inflation, unemployment, and economic growth in alternative models of the national economy.

Hist 3701. Women and Religion: A History. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
A historical discussion of women in non-Western and Western religions.

Hist 3702. The History of Women in the West. (HDiv; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Focuses on the intellectual as well as political, social, and economic history of pre-European, western European, and American women.

Hist 3703. 20th-Century European Women. (Hist; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Social history of 20th-century European women.

Hist 3704. Women in the Middle Ages. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Examination of lives of women in Europe from about 500 to 1500.

Hist 3706. Women in Early Modern Europe. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Examination of lives of women in Europe from about 1350 to 1750.

IS 4101s. Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services. (E/CR; 2 cr; prereq jr, 10 cr 3xxx or 4xxx human services courses or #)
Concepts of professional ethics in human services professions; ethically relevant legal mandates and constraints on professional practice; practical problems in the application of ethical principles.

Mgmt 3151s. Human Resources Management I. (E/CR; 2 cr; prereq 2101 or #)
An introduction to the functional areas of human resource management through the use of case studies. Topics include legal issues, planning, recruitment, evaluation, compensation, and benefits.

Mgmt 3152. Human Resources Management II. (HDiv; 2 cr; prereq 2101 or #; offered when feasible)
Topics in human resource management: evaluating employee performance, training, safety, labor relations, international human resource management.

Mgmt 3512s. Group Dynamics. (SS; 2 cr; prereq Psy 3501 or Psy/Mgmt 3701 or #; not offered 2005-06)
Same as Psy 3512. Uses the behavioral sciences to take an applied and theoretical perspective on group dynamics. Topics include teams, teams versus groups, group decision-making, group performance, group structure, and group socialization.
### Division Structure and Course Descriptions

**Mgmt 3513s. Negotiation.** (SS; 4 cr; prereq 3221 or Psy 3501 or Psy/Mgmt 3701; not offered 2006-07)
Same as Psy 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

**Mgmt 3701. Organizational Behavior.** (SS; 4 cr; prereq jr or sr)
Same as Psy 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace, group dynamics, power, leadership and attribution theory.

**Pol 3201f. Legislative Process.** (SS; 4 cr; prereq 1201 or #; Stat 1601 or 2601 recommended)
The internal organization of Congress, with emphasis on how rules and organizational changes affect the policy process. Topics include the evolution of the modern Congress, the committee system, the role of party leadership, and competing theories of congressional organization. In addition, comparisons/contrasts are drawn from other legislatures in democracies around the world.

**Pol 3262f. Minorities and Public Policy.** (HDiv; 4 cr; prereq 1201 or #; not offered 2006-07)
Analysis of the ways race, ethnicity, and other factors shape political engagement; their implications for public policy and the policy process.

**Pol 3263f. Political Psychology.** (SS; 4 cr; prereq 1201; Psy 1051 or # recommended; not offered 2005-06)
Examines the utility of concepts from personality and social psychology for conducting political analysis and understanding political behavior. Explores the role of the individual, group processes, and the political context in political decision making by both leaders and nonleaders.

**Pol 4221f. Judicial Politics.** (SS; 4 cr; prereq 1201 or #; Stat 1601 or 2601 recommended; not offered 2006-07)
The role of judges, police, attorneys, and interest groups within the political system, with analysis focusing on each as political actors. Areas of discretion in the legal system. Extra-legal predictors of judicial decision making and certiorari voting.

**Pol 4264s. American Political Culture.** (Hist; 4 cr; prereq 1201 or #; not offered 2005-06)
A survey of the ideas shaping the U.S. political system and Americans' political behavior. Examines the ways that U.S. political culture has shaped institutional development, policy outcomes, and the everyday political experiences within the political system.

**Psy 1061f. Human Sexuality.** (SS; 4 cr)
Survey of aspects of human sexuality, including intimacy and communication; male and female anatomy, physiology, and response; development of identity, sex role, and gender orientation; varieties of sexual expression; pregnancy and childbirth; contraception and disease prevention; sexual coercion and abuse; sexual dysfunctions and their treatment.

**Psy 1081s. Drugs and Human Behavior.** (SS; 2 cr)
Survey of psychoactive drugs, their effects on mind and behavior, and prevention and treatment of drug abuse.

**Psy 3051s. The Psychology of Women and Gender.** (Hist; 4 cr; prereq 1051 or #)
Exploration of the interactive biological, psychological, and sociocultural processes that shape the lives of women and the experience of gender. Topics include: the psychobiology of sex; the social construction of sex and gender; socialization and development; media representations; identity and sexuality; language and communication; motivation and personality; relationships; work and family lives; mental and physical health; mid- and later life development; victimization; therapy; intersections of race, class, and gender; and feminist approaches to teaching, learning, and knowing.

**Psy 3101f. Learning Theory and Behavior Modification.** (SS; 4 cr; prereq 2001 or #)
Major theories of learning and their importance for understanding human and nonhuman behavior. Classical and operant conditioning, generalization, discrimination, stimulus control, animal cognition. Behavior modification theories and techniques and their application to clinical populations. Lab projects demonstrate learning and behavior modification theories, concepts, and techniques and illustrate research methods and theory testing. Includes lab.

**Psy 3112s. Cognition.** (SS; 4 cr; prereq 2001 or #)
Empirical study of memory, language behaviors, representation of knowledge, judgment, decision making, problem solving, and creative thinking. Includes lab.

**Psy 3211f. Biological Psychology.** (Sci-L; 5 cr; prereq [1051 and 2001] or Biol 1101)
Brain organization and function; an emphasis on an understanding of the neural processes that underlie human and nonhuman behavior. Incorporates information from psychology, neuroscience, endocrinology, physiology, chemistry, neurology, and zoology to investigate the physiological basis of behavior. Topics include sensory processes, drugs and addiction, biological rhythms, sexual differentiation, reproduction, methods in neuroscience, neuropsychological disorders, and clinical assessment. Lab projects focus on neuroanatomical organization and function of the brain. (4 hrs lect, 1 hr lab)

**Psy 3221s. Behavioral Biology of Women.** (Sci; 2 cr; prereq 3211 or Biol 2111 or #; offered when feasible)
Exploration of proximate and ultimate influences on female behavior in human and nonhuman species. Sexual differentiation, gender differences in cognition, biological basis of sexual orientation, female sexual selection, and dominance.
Psy 3302s. Personality. (SS; 4 cr; prereq 1051, Stat 1601 or 2601 or #)
Nature of personality constructs and theories. Conscious vs. nonconscious processes; emotion and motivation; nature and measurement of personal traits; their dimensional structure, stability, development, and heritability.

Psy 3313s. Psychopathology. (SS; 4 cr; prereq 3302, Stat 1601 or Stat 2601)
Psychological disorders and their treatment, including anxiety, personality, affective, schizophrenic, and other recognized disorders of children and adults.

Psy 3401f. Developmental Psychology I: Child Psychology. (SS; 4 cr; prereq 1051 or #)
Theory, data, and research in development from conception to adolescence. Prenatal and physical development as well as perceptual, cognitive, personality, and social development. Language acquisition and Piaget’s theory of cognitive development.

Psy 3402s. Developmental Psychology II: Adolescence. (SS; 2 cr; prereq 1051, [3401 or 1061] or #)
Theory, data, and research in adolescent development with emphasis on physical, cognitive, and social development.

Psy 3403f. Developmental Psychology III: Adulthood, Aging, and Death. (E/CR; 4 cr; prereq 1051 or #)
An overview of current concepts, theories, and methods in the study of adult development and aging. Provides students with an applied-learning experience through a service learning component. Theoretical and methodological content is integrated with service learning, involving approximately one hour per week of work outside the classroom. Focus is on individual biological and social-psychological development, but also incorporates historical, sociological, and anthropological perspectives where appropriate.

Psy 3501f. Social Psychology. (SS; 4 cr; prereq 1051 or Soc 1101 or #)
Theories and research in the study of interpersonal behavior. Topics include aggression, prejudice, altruism, persuasion, group dynamics, and social influence.

Psy 3511s. Applied Social Psychology. (SS; 2 cr; prereq 3501 or Psy/Mgmt 3701 or #; not offered 2005-2006)
Application of theories and techniques from social psychology and related behavioral sciences to social, legal, and consumer issues. Emphasis on both understanding and bringing about change on these issues.

Psy 3512s. Group Dynamics. (SS; 2 cr; prereq 3501 or Psy/Mgmt 3701 or #; not offered 2005-06)
Same as Mgmt 3512. Uses the behavioral sciences to take an applied and theoretical perspective on group dynamics. Topics include teams, teams versus groups, group decision making, group performance, group structure, and group socialization.

Psy 3513s. Negotiation. (SS; 4 cr; prereq 3501 or Mgmt 3221 or Psy/Mgmt 3701; not offered 2006-07)
Same as Mgmt 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

Psy 3521s. Health Psychology. (SS; 4 cr; prereq 1051)
Health implications of interactions among behavioral, environmental, and physiological states. Physiological bases of behavior and health; stress and coping; behavioral antecedents of disease; psychoneuroimmunology; disease prevention and health promotion.

Psy 3701. Organizational Behavior. (SS; 4 cr; prereq jr or sr)
Same as Mgmt 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace, group dynamics, power, leadership and attribution theory.

Psy 4101f. Helping Relationships. (SS; 4 cr; prereq 3302)
Approaches to counseling and psychotherapy. Theories of helping relationships. Acquisition of helping skills, including attending behavior, reflection of feeling, paraphrasing, confrontation, and summarization. Major humanistic, cognitive, and behavioral approaches. Didactic instruction, observation of counseling and psychotherapeutic techniques, and practical experiences.

Psy 4610. Empirical Investigations in Cognitive Psychology I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, [3111 or 3112], #; no cr for 4610 until 4710 completed)
Empirical investigations by students in any area of cognitive psychology, including sensation and perception, as well as related areas. Includes lab. First half of a series; students must enroll in Psy 4710 to complete the project.

Psy 4620f. Empirical Investigations in Biological and Comparative Psychology I. (Sci; 2 cr; repeatable to 4 cr; prereq 2001, 3211 or 3201, #; no cr for 4620 until 4720 completed)
Empirical investigations by students in any area covered by biological or comparative psychology, as well as related areas. Includes lab. First half of a series; students must enroll in Psy 4720 to complete the project.

Psy 4630f. Empirical Investigations in Personality, Psychopathology, and Psychological Intervention I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, 3302, #; no cr for 4630 until 4730 completed)
Empirical investigations in human emotion, motivation, individual differences, psychopathology, and psychological intervention. Includes lab. First half of a series; students must enroll in Psy 4730 to complete the project.

Psy 4640f. Empirical Investigations in Developmental Psychology I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, [3401 or 3402 or 3403], #; no cr for 4640 until 4740 completed)
Individual reading and empirical research on any topic. Objective is greater depth than is possible in Psy 3401, 3402, 3403 and demonstration of research competency. Includes lab. First half of a series; students must enroll in Psy 4740 to complete the project.

Psy 4650f. Empirical Investigations in Social and Organizational Psychology I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, [3501 or 3701], #; no cr for 4650 until 4750 completed)
Seminar instruction on topics of student and staff interests. Students complete an empirical project and paper. Includes lab. First half of a series; students must enroll in Psy 4750 to complete the project.
Division Structure and Course Descriptions

Psyc 4660f,s. Empirical Investigations in Health Psychology I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, [3501 or 3521], #; no cr for 4660 until 4760 completed)
Seminar instruction on topics of student and staff interests. Students complete an empirical project and paper. Includes lab. First half of a series; students must enroll in Psyc 4760 to complete the project.

Psyc 4710f,s. Empirical Investigations in Cognitive Psychology II. (SS; 2 cr; repeatable to 4 cr; prereq 4610, #)
Continuation of Psyc 4610. Psyc 4710 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psyc 4610, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psyc 4610 and 4710 may be taken concurrently. It is recommended that students begin the series in the fall term.

Psyc 4720f,s. Empirical Investigations in Biological and Comparative Psychology II. (Sci; 2 cr; repeatable to 4 cr; prereq 2001, 3201, 3211, 4620, #)
Continuation of Psyc 4620. Psyc 4720 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psyc 4620, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psyc 4620 and 4720 may be taken concurrently. It is recommended that students begin the series in the fall term.

Psyc 4730f,s. Empirical Investigations in Personality, Psychopathology, and Psychological Intervention II. (SS; 2 cr; repeatable to 4 cr; prereq 4630, #)
Continuation of Psyc 4630. Psyc 4730 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psyc 4630, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psyc 4630 and 4730 may be taken concurrently. It is recommended that students begin the series in the fall term.

Psyc 4740f,s. Empirical Investigations in Developmental Psychology II. (SS; 2 cr; repeatable to 4 cr; prereq 4640, #)
Continuation of Psyc 4640. Psyc 4740 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psyc 4640, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psyc 4640 and 4740 may be taken concurrently. It is recommended that students begin the series in the fall term.

Psyc 4750f,s. Empirical Investigations in Social and Organizational Psychology II. (SS; 2 cr; repeatable to 4 cr; prereq 4650, 4650, #)
Continuation of Psyc 4650. Psyc 4750 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psyc 4650, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psyc 4650 and 4750 may be taken concurrently. It is recommended that students begin the series in the fall term.

Psyc 4760f,s. Empirical Investigations in Health Psychology II. (SS; 2 cr; repeatable to 4 cr; prereq 4660, #)
Continuation of Psyc 4660. Psyc 4760 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psyc 4660, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psyc 4660 and 4760 may be taken concurrently. It is recommended that students begin the series in the fall term.

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

Soc 2301s. Social Change and Development in Latin America. (IP; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2301. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Soc 2302f. Women in Latin America. (IP; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2302. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women.

Soc 2451f. Contemporary Native Americans. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; not offered 2005-06)
Same as Anth 2451. The cultures, problems, and resurgence of Native Americans in the 20th and 21st centuries. Government policies; education, religion, self-determination, family, gaming, etc.

Soc 2452s. Native American Women. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. Interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Soc 3111s. Sociology of Modernization. (IP; 4 cr; prereq 1101 or Anth 1111 or #)
Process of modernization in non-Western societies. Social, economic, and political impact of modernization from different theoretical perspectives. Assessment of those theoretical perspectives as a means to understand dynamics of change in Third World countries.

Soc 3121f. Sociology of Gender. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #)
An introduction to the sociological study of gender. Focus on gender difference and gender inequality. Analysis of the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today’s world. Theoretical overview and an examination of how gender affects everyday experiences.
**Soc 3131f. World Population.** (Env; 4 cr; prereq 1101 or #) Population theory and demographic method. Dynamics of fertility and mortality as the basis of population forecasting and its policy implications. Emphasis on the tie between Third World demographic trends and population issues in the rest of the world.

**Soc 3141f. Sociology of Deviance.** (E/CR; 4 cr; prereq 4 cr in Soc or #) An introduction to the sociological study of deviance. Explore the social reality of deviance within contemporary society and examine the social construction of deviant categories. Specific focus on images of deviance as social construct, rather than as intrinsic elements of human behavior. Investigation of the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also, an examination of the sociocultural definitions of morality and behavior.

**Soc 3203s. Indigenous Peoples of the World: A Cultural Perspective.** (IP; 4 cr; prereq 1101 or Anth 1111; not offered 2005-06) Same as Anth 3203. Examination of the cultures of indigenous peoples of the Americas, Asia, Africa, and Oceania. Particular attention is paid to processes of assimilation and acculturation, as well as contemporary efforts in identity formation.

**Soc 3251f. African Americans.** (HDiv; 4 cr; prereq 1101 or Anth 1111) Examination of African American religious, economic, political, family, and kinship institutions in the context of the greater American society. Struggles to overcome problems and the degree of success or failure of these struggles are examined and placed in historical context.

**Soc 3252s. Women in Muslim Society.** (IP; 4 cr; prereq 1101 or Anth 1111) The cultures and social statuses of women in several Muslim countries are examined and placed in their political, economic, and religious contexts.

**Spc 2071. Introduction to the Principles and Practices of Speech Communication.** (Hum; 4 cr; prereq #) Those seeking licensure in communication arts/literature, others in education, and other professionals develop mastery of the principles and practices of public speaking, small group communication, and interpersonal communication.

**Spc 3401. Human Communication Theory.** (SS; 4 cr; prereq 2101 or #) Detailed study of the theoretical tradition of human communication. Focuses on social scientific and humanities theories used to explain social interaction. Provides general foundation on various traditions of inquiry as well as qualitative and quantitative methods.

**Spc 3411. Intercultural Communication Theory and Research.** (HDIV; 4 cr; prereq 2101 or #) Study of intercultural communication from an interpersonal and group perspective.

**Spc 3421. Organizational Communication Theory and Research.** (SS; 4 cr; prereq 2101 or #) Study of organizational communication, including small group perspectives.

**Spc 3431. Interpersonal Communication Theory and Research.** (SS; 4 cr; prereq 2101 or #) Study of theories and research topics of interpersonal communication in various contexts.

**WSS 1051f.s. Fitness for Life.** (2 cr) Factors associated with a positive lifestyle, assessment of each individual’s current wellness status, and development of a personal lifetime program for improving one’s quality of life.

### Management (Mgmt)

This discipline is in the Division of the Social Sciences. It offers a multidisciplinary liberal arts-based program that allows students to enter the field of management as a professional or proceed to graduate studies.

**Objectives**—The management curriculum focuses on those areas of human knowledge that concern the operation and control of business and nonprofit organizations. In addition to developing competence in analytical and core business areas, students majoring in the field are expected to learn to critically examine business and other institutions from a liberal arts perspective. Specifically, management students:

1. understand and use a variety of techniques to manage financial, human, and material resources
2. are able to critically conceptualize business problems and to develop appropriate strategies for problem solving
3. understand and use a variety of quantitative analysis techniques appropriate for business
4. develop collaborative skills
5. be competent in written and oral communication
6. develop competence in computer skills
7. are prepared for professional careers in business or public service, or for graduate studies
8. are able to see relationships between management and other liberal arts disciplines.

Requirements for a major include analytical, core, and requirements from a chosen area of emphasis.

### Major Requirements

**Analytical Skills**

Stat 1601 — Introduction to Statistics

or Stat 2601 — Statistical Methods

**Core Requirements**

Econ 1111 — Principles of Microeconomics

Econ 1112 — Principles of Macroeconomics

Mgmt 2101-2102 — Principles of Accounting I-II

Econ 4501 — Senior Research Seminar in Economics and Management
8 credits in Mgmt courses at 3xxx or above, exclusive of those used to satisfy emphasis requirements
8 additional credits in Mgmt or Econ courses at 3xxx or above, exclusive of those used to satisfy emphasis requirements
No more than 4 credits from each of the following can be applied to the major:
Econ 4501 — Senior Research Seminar in Economics and Management
Mgmt x993 — Directed Study

**Emphasis Requirements**

Students must complete the requirements from one of the following areas of emphasis:

**I. Financial Management**
Math 1101 — Calculus I
Spch 1052 — Introduction to Public Speaking
or Spch 4151 — Argumentation: Theory and Practice
Mgmt 3101 — Financial Management
At least 8 credits from Mgmt 3133, 4101, 46xx, Econ 3113, 4131

**II. Global Business**
Mgmt 3601 — Transnational Enterprise
8 credits of Fren, Ger, Span or other approved language at 2xxx or above
4 credits of coursework other than Econ or Mgmt at 3xxx and above that carries the IP general education designation
At least 8 credits from Econ 3131, 3141, 3142, 4121, 4131, Mgmt 45xx

**III. Organizations and Human Resources**
Spch 1052 — Introduction to Public Speaking
or Spch 4151 — Argumentation: Theory and Practice
Phil 2112 — Professional Ethics
Mgmt 3151 — Human Resource Management I
10 credits taken from 3152, 3161, 3162, 3221, 351x, 3701, Econ 4101, Econ 4102, Psy 3302, Psy 3501, Psy 3511, Soc 2101, Soc 3121, Spch 3421, with at least 6 of these credits from Econ or Mgmt
Grades of D in Mgmt 2101-2102 or Econ 1111-1112 may not be used to meet minor requirements.
Required courses may not be taken S-N unless offered S-N only.

**Course Descriptions**

**Mgmt 2101f. Principles of Accounting I.** *(4 cr)*
An introductory course in accounting principles and practices. The students develop an understanding of both the conceptual and procedural framework of the accounting processes. Emphasis is placed on the preparation and communication of accounting information and the financial statements for a proprietorship.

**Mgmt 2102s. Principles of Accounting II.** *(4 cr; prereq 2101)*
A continuation of Principles of Accounting I. Students develop an understanding of the issues unique to partnerships, corporations, and organizational financing. Cash flow statements and performance analysis are also emphasized.

**Mgmt 3101f. Financial Management.** *(SS; 4 cr; prereq 2102, Econ 1111, Econ 1112, Stat 1601)*

**Mgmt 3133f. Managerial Accounting.** *(4 cr; prereq 2102; not offered 2005-06)*
Managerial accounting is designed to help managers assess needed information to carry out three essential functions in an organization: planning operations, controlling activities, and making decisions. The emphasis of this course is placed on cost behaviors, various product costing methods, cost-volume-profit relationships, budgeting and control through standard costs, and other quantitative techniques used by management.

**Mgmt 3141. Business Law I.** *(SS; 2 cr; prereq 2101 or #; offered when feasible)*
Law as it relates to the commercial world, including the legal environment, federal regulation, contracts, agency, sales.

**Mgmt 3142. Business Law II.** *(SS; 2 cr; prereq 2101 or #: offered when feasible)*
Law as it relates to the commercial world, including the legal environment, commercial paper, corporations, secured transactions, bankruptcy, anti-trust law, and selected employment statutes.
Mgmt 3151s. Human Resources Management I. (E/CR; 2 cr; prereq 2101 or #)
An introduction to the functional areas of human resource management through the use of case studies. Topics include legal issues, planning, recruitment, evaluation, compensation, and benefits.

Mgmt 3152. Human Resources Management II. (HDIV; 2 cr; prereq 2101 or #; offered when feasible)
Topics in human resource management: evaluating employee performance, training, safety, labor relations, international human resource management.

Mgmt 3161s. Labor Management Relations I. (E/CR; 2 cr; prereq Econ 1111 or #; not offered 2005-06)
Historical development of labor relations and the legal framework governing collective bargaining. Labor relations law reform. Case studies from labor relations law.

Mgmt 3162s. Labor Management Relations II. (SS; 2 cr; prereq 3161 or #; offered when feasible)
Issues in labor-management negotiation, grievances, wages and economic security plans, public policies toward collective bargaining. Case studies from labor arbitration.

Mgmt 3201s. Marketing Principles and Strategy. (SS; 4 cr; prereq 2102, Stat 1601 or #; offered when feasible)
Basic factors affecting policy and strategy issues in marketing. Economic, legal, behavioral, environmental, competitive, and technological factors as they affect product, pricing, promotion, and marketing-channel decisions.

Mgmt. 3221f. Management and Organization Theory. (SS; 4 cr; prereq 2101, Econ 1110 or #; not offered 2006-07)

Mgmt 3301s. Management Science. (M/CR; 4 cr; prereq 2102, Stat 1601; offered when feasible)
Application of quantitative methods to decision making in business. Topics may include linear programming, forecasting and other probabilistic techniques, inventory management, network models, project management, decision theory, transportation and assignment models, simulation, Markov analysis, integer programming, Monte Carlo simulation.

Mgmt 3501s. Applied Deterministic Modeling for Management Science. (M/SR; 2 cr; prereq 2102, Math 1101 or Stat 1601 or Stat 2601 or #)
Same as Math 3501. Formulations of real-world problems as Linear Programming or Integer Linear Programming models; graphical solutions of some LP models. Linear Programming: the Simplex method, intuitive ideas behind the Simplex method. Using software to solve LP problems; interpreting optimal solutions; sensitivity analysis; duality. Network diagram representation; critical path method (CPM-PERT); transportation problem.

Mgmt 3502s. Applied Probabilistic Modeling for Management Science. (M/SR; 2 cr; prereq 2102, Math 1101 or Stat 1601 or Stat 2601 or #)
Same as Math 3502. Short review of probability and statistics; mean and variance of a data set; discrete and continuous random variables (especially the Exponential distribution and the Poisson distribution). Decision and game theory. Decision trees, types of decision criteria. Queuing models, birth-and-death processes; Markovian or Poisson arrivals and exponential service times; M/M/k and M/M/8 queues; Statistical Quality Control; inventory control system.

Mgmt 3512s. Group Dynamics. (SS; 2 cr; prereq Psy 3501 or Ps/Mgmt 3701 or #; not offered 2005-06)
Same as Psy 3512. Uses the behavioral sciences to take an applied and theoretical perspective on group dynamics. Topics include teams, teams versus groups, group decision-making, group performance, group structure, and group socialization.

Mgmt 3513s. Negotiation. (SS; 4 cr; prereq 3221 or Psy 3501 or Ps/Mgmt 3701; not offered 2006-07)
Same as Psy 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

Mgmt 3601f. Transnational Enterprise. (IP; 2 cr; prereq 2102, Econ 1111, Econ 1112 or #)
Development and transformation of business enterprise within the global economy. Includes the basic impact of structural, institutional, and organizational change upon the dynamics of the firm and industry in the contemporary hyper-competitive, technology-driven, fast-paced, global environment.

Mgmt 3701. Organizational Behavior. (SS; 4 cr; prereq jr or sr)
Same as Psy 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace, group dynamics, power, leadership and attribution theory.

Mgmt 4101s. Investment and Portfolio Analysis. (SS; 4 cr; prereq 2101, 2102, 3101)
The institutional environment of investment, techniques used to price financial products, and how to design a portfolio of many assets.

Mgmt 4201. Introduction to Industry Analysis. (SS; 2 cr; prereq 2101, Econ 1111, Econ 1112, Math 1101, Stat 1601 or #; offered when feasible)
Introduction to elements of industry analysis from a microeconomics primer to an initial look at Porter’s Five Forces framework.

Mgmt 4202. Introduction to Strategic Positioning. (SS; 2 cr; prereq 2101, Econ 1111, Econ 1112, Math 1101, Stat 1601 or #; offered when feasible)
Further development of industry analysis; introduction to value creation in relation to competitive advantage and the strategic positioning of the firm.

Mgmt 4501. Globalization and Business Strategy. (IP; 2 cr; prereq 3601 or #; offered when feasible)
Review of the impact of increasing globalization of the corporate and economic environment; application of strategic methods to new business conditions.
Mgmt 4502. Technological Change, Labor Markets, and Skill Formation. (IP; 2 cr; prereq 3601 or #; offered when feasible)
The change of technology in relation to the formation of skills and the transformation of regional labor markets throughout the world. The intimate relationship between “skilling” and “deskilling” of labor and the transformation of technology.

Mgmt 4601. Advanced Topics in Financial Economics. (SS; 2 cr; prereq 3101 or #; offered when feasible)
Continuation of Mgmt 3101. Topics include dividend policy, hybrid financing, derivatives, and mergers.

Mgmt 4602f. Long-Term Financing. (SS; 2 cr; prereq 3101 or #; offered when feasible)
Application of the fundamental financial theories acquired in Mgmt 3101 to long-term financing in corporations. The primary focus is on issuing securities to the public, financial leverage, capital structure policy, dividend policy, and leasing.

Mgmt 4603f. Working Capital Management (SS; 2 cr; prereq 3101 or #; offered when feasible)
Application of the fundamental financial theories acquired in Mgmt 3101 to working capital management in corporations. The primary focus is on financial planning, cash management, credit management, and risk management.

Mgmt 4896. Internship. (1-4 cr; repeatable to 4 cr; 2 cr may be applied toward major or minor; prereq 2102, #; S-N only)
Supervised educational experience and field application relevant to student’s major. Written analysis appropriate to the application is required.

Mgmt 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Mathematics (Math)

This discipline is in the Division of Science and Mathematics.

Objectives — The mission of the discipline is to advance knowledge of mathematics: by teaching mathematics and its processes, by research in mathematics and mathematical pedagogy, and by dissemination of this knowledge to students and the community we serve. Historically, the study of mathematics has been central to a liberal arts education. The mathematics curriculum serves as an integral part of students’ active pursuit of a liberal arts education. The mathematics program serves students who major or minor in mathematics, seek secondary mathematics teaching licensure, major or minor in programs that require a mathematical background, or wish to fulfill components of a general education.

The mathematics curriculum is designed to help students develop competence in mathematical techniques and methods; to sharpen students’ mathematical intuition and abstract reasoning as well as their reasoning from numerical data; to encourage and stimulate the type of independent thinking required for research beyond the confines of the textbook; and to provide students with the basic knowledge and skills to make mathematical contributions to modern society and effectively disseminate mathematical knowledge to the community.

The program seeks to enable students to see and communicate how the development of mathematics has been part of the development of several civilizations and is intimately interwoven with the cultural and scientific development of these societies. The curriculum prepares students to enter graduate school, pursue careers in applied mathematics, or teach mathematics.

Major Requirements
Math 1101-1102-2101—Calculus I-II-III
Math 2111—Linear Algebra
Math 2202—Mathematical Perspectives
Math 3221—Analysis
Math 3231—Abstract Algebra I
Math 4901—Senior Seminar
Stat 2611—Mathematical Statistics
One course numbered Math x4xx
A minimum of 5 additional credits in Math courses at 2xxx or above

Students also are required to take a course with significant mathematical applications outside the mathematics discipline. This course must be approved by the mathematics discipline. Courses which meet this requirement are listed online at www.morris.umn.edu/academic/math/app-require.html.

Required courses may not be taken S-N unless offered S-N only. Up to 6 credits of coursework with a grade of D may be used to meet the major requirements if offset by an equivalent number of credits of A or B.

Majors should begin with Math 1011—Pre-Calculus or Math 1101—Calculus I. Students with questions about placement are encouraged to discuss them with members of the mathematics faculty.

Recommended electives for students planning to pursue graduate work in pure mathematics are:
Math 4201—Complex Analysis
Math 4211—Real Analysis
Math 4221—Topology
Math 4231—Abstract Algebra II
Math 4241—Number Theory
Math 4252—Differential Geometry
Math 4253—Combinatorics

Recommended electives for students planning to work or pursue graduate work in applied mathematics or related fields are:
Math 2401—Differential Equations
Math 3401—Operations Research
Math 3411—Discrete and Combinatorial Mathematics
Math 4401 — Numerical Methods with Applications in Mathematical Modeling
Math 4452 — Mathematical Modeling

Minor Requirements

Math 1101-1102 — Calculus I-II
Math 2111 — Linear Algebra
A minimum of 12 additional credits in Math courses at 2xxx or above in at least two of the following numbering systems x2xx, x4xx, x5xx, or Stat 2611 or Math 2101

Required courses may not be taken S-N unless offered S-N only. Up to 6 credits of coursework with a grade of D may be used to meet the minor requirements if offset by an equivalent number of credits of A or B.

Teacher Preparation Requirements

Students seeking teaching licensure in mathematics 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Math 909lf. Basic Algebra. (0 cr toward graduation, 4 cr toward financial aid)
Sets, absolute values, linear equations and inequalities, functions and graphs, arithmetic of complex numbers, quadratics, radicals, exponents and logarithms, and linear systems of equations.

Math 1001s. Survey of Math. (M/SR; 4 cr; prereq Math course above 1100; not offered 2006-07)
Introductory topics in mathematics, such as number system, geometry, algebra, discrete mathematics, statistics, logic, and the history of mathematics, including applications in today’s world.

Math 1011f.s, Pre-Calculus. (4 cr; prereq high school higher algebra, geometry; intended to prepare students for Math 1101)
Polynomial, rational, exponential, logarithmic, and trigonometric functions; trigonometric identities and equations; polar coordinates and topics from analytic geometry; systems of equations, geometric, series; binomial theorem.

Math 1021f. Survey of Calculus. (M/SR; 4 cr; prereq high school higher algebra, geometry or 1011)
Short course for students in social sciences, biological sciences, and other areas requiring a minimal amount of calculus. Topics include basic concepts of functions, derivatives and integrals, exponential and logarithmic functions, maxima and minima, partial derivatives; applications.

Math 1101f.s, Calculus I. (M/SR; 5 cr; prereq high school higher algebra, geometry, trigonometry or 1011)
Limits and continuity; the concepts, properties, and some techniques of differentiation, antiderivativeation, and definite integration and their connection by the Fundamental Theorem. Partial differentiation. Some applications. Students learn the basics of a computer algebra system.

Math 1102f.s, Calculus II. (M/SR; 5 cr; prereq 1101)

Math 2101f,s. Calculus III. (M/SR; 4 cr; prereq 1102 or #)
Multivariable and vector calculus. Three-dimensional analytic geometry; partial differentiation; multiple integration; gradient, divergence, and curl; line and surface integrals; divergence theorem; Green and Stokes theorems; applications.

Math 2111f,s. Linear Algebra. (M/SR; 4 cr; prereq 1101 or #)
Matrix algebra, systems of linear equations, finite dimensional vector spaces, linear transformations, determinants, inner-product spaces, characteristic values and polynomials, eigenspaces, minimal polynomials, diagonalization of matrices, related topics; applications.

Math 2202s. Mathematical Perspectives. (M/SR; 4 cr; prereq 1101)
Introduction to the methodology and subject matter of modern mathematics. Logic, sets, functions, relations, cardinality, and induction. Introductory number theory. Roots of complex polynomials. Other selected topics.

Math 2211f. History of Mathematics. (4 cr; prereq Math course above 1100 or #; not offered 2005-06)
Historical development of various areas in mathematics and important figures in mathematics from ancient to modern times.

Math 2401f. Differential Equations. (M/SR; 4 cr; prereq 1102 or #)
First-order and second-order differential equations with methods of solution and applications, systems of equations, series solutions, existence and uniqueness theorems, the qualitative theory of differential equations.

Math 2501f. Probability and Stochastic Processes. (M/SR; 4 cr; prereq 1101 or #)

Math 3211f. Geometry. (M/SR; 4 cr; prereq Math course above 1100; not offered 2006-07)
Synthetic approach to Euclidean and non-Euclidean geometries. Selected topics from affine, hyperbolic, spherical, projective geometries. Possible comparisons of analytic and synthetic approaches. May include other related topics or use of computer software for geometry.

Math 3221f. Analysis. (M/SR; 4 cr; prereq 1102, 2202 or #)
Introduction to real and complex analysis. The main topics of calculus—convergence, continuity, differentiation, integration, and series—applied and extended in advanced settings with emphasis on precise statements and rigorous proofs. Concept of metric space. Other topics and applications.

Math 3231s. Abstract Algebra I. (M/SR; 4 cr; prereq 2111, 2202 or #)
Systematic study of groups and rings, making use of linear algebra. Groups as codifying symmetry throughout mathematics and its applications. The Euclidean algorithm and its consequences, both for integers and polynomials. Other selected topics and applications.
Math 3401s. Operations Research. (M/SR; 4 cr; prereq 1100 or higher or #)
Topics include, but are not limited to, linear and integer linear programming formulations, sensitivity analysis and duality, network models and applications.

Math 3411f. Discrete and Combinatorial Mathematics. (M/SR; 4 cr; prereq 1100 or higher or #)
Propositional logic; equivalence relations; recurrence equations; structures and properties of undirected and directed graphs; applications of the aforementioned topics.

Math 3501s. Applied Deterministic Modeling for Management Science. (M/SR; 2 cr; prereq 1101 or Stat 1601 or Stat 2601 or Stat 2611, Mgmt 2102 or #)
Same as Mgmt 3501. Formulations of real-world problems as Linear Programming or Integer Linear Programming models; graphical solutions of some LP models. Linear Programming: the Simplex method, intuitive ideas behind the Simplex method. Using software to solve LP problems; interpreting optimal solutions; sensitivity analysis; duality. Network diagram representation; critical path method (CPM-PERT); transportation problem.

Math 3502s. Applied Probabilistic Modeling for Management Science. (M/SR; 2 cr; prereq 1101 or Stat 1601 or Stat 2601 or Stat 2611, Mgmt 2102 or #)
Same as Mgmt 3502. Short review of probability and statistics; mean and variance of a data set; discrete and continuous random variables (especially the exponential distribution and the Poisson distribution). Decision and game theory. Decision trees, types of decision criteria. Queuing models, birth-and-death processes; Markovian and Poisson arrivals and exponential service times; M/M/k and M/M/8 queues; Statistical Quality Control; inventory control system.

Courses numbered 42xx can include a variety of topics in mathematics. Each year the mathematics discipline will decide which courses to offer, taking student preferences into account.

Math 4201. Complex Analysis. (M/SR; 2 cr; prereq 3221 or #)
Differentiable and analytic functions of a complex variable. Contour integral theorems. Laurent expansions. Other topics optional.

Math 4211. Real Analysis. (M/SR; 2 cr; prereq 3221 or #)
Differentiation of functions of several variables. The extension of integration to other forms of integrals. Introduction to measure theory. Other optional topics.

Math 4221. Topology. (M/SR; 2 cr; prereq 2202 or #)
Selected topics from point set topology and/or algebraic topology.

Math 4231. Abstract Algebra II. (M/SR; 2 cr; prereq 3231 or #)
Selected topics from the theory of finite groups, Galois theory of fields, and/or the theory of rings.

Math 4241. Number Theory. (M/SR; 2 cr; prereq 2202 or #)
Selected topics from modular congruences, theory of primes, classical Diophantine equations, and the connections with algebraic curves.

Math 4252. Differential Geometry. (M/SR; 2 cr; prereq #)
Geometry of curves and surfaces. Frames, curvature, torsion, orientation, differential forms, topological properties of surfaces. The notion of differentiable manifold. Selected applications.

Math 4253. Combinatorics. (M/SR; 2 cr; prereq #)
Selected topics from graph theory, the theory of ordered sets, and/or enumerative combinatorics.

Math 4401. Numerical Methods With Applications in Mathematical Modeling. (M/SR; 4 cr; prereq 2111, 2401 or #; offered when feasible)
Finite differences; interpolation; numerical integration; numerical solutions of differential, algebraic, and transcendental equations; continuous mathematical models.

Math 4452. Mathematical Modeling. (M/SR; 4 cr; prereq #; offered when feasible)
Mathematical modeling using discrete and continuous models. Mathematical topics include, but are not limited to, curve fitting, statistical testing, regression analysis, differential equations, and dynamical systems. Topics drawn from population growth, interacting populations, biology, genetics, traffic flow, or finance.

Math 4901f. Senior Seminar. (M/SR; 1 cr; prereq sr)
This is a full-year course, required for all mathematics majors in their senior year. Students must attend year round and present one of the seminars.

Math 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; 1993 repeatable to 25 cr; 2993 repeatable to 10 cr; 3993 repeatable to 25 cr; 4993 repeatable to 5 cr; must be completed under the guidance of an approved directed study form)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum. In particular, students are encouraged to take at least one credit of a directed study in problem solving in mathematics. Such courses, at different levels, are available each term.

Music (Mus)
This discipline is in the Division of the Humanities. The music curriculum offers a wide range of courses for the music major. It also has strong appeal to the general student, especially in the activities of the instrumental and vocal ensembles.

Objectives — Students become familiar with the traditions of Western and non-Western music through theoretical analysis, research, performance, and historical survey. The curriculum fosters the development of the critical ability necessary to understand those traditions. Students experience the unique relationship between research and performance in music. Theoretical and practical courses that provide a sound academic background in music are available for those who intend to pursue graduate study, teach, or fulfill general education requirements.

Major Requirements
7 enrollments in Mus 0100—Concert Attendance

Core Studies I
Mus 1101—Music Theory I*
Mus 1102—Music Theory II*
**Core Studies II**
Mus 2101 — Advanced Music Theory III*
Mus 2102 — Advanced Music Theory IV*
*Concurrent enrollment in piano lessons until the piano proficiency test is passed.

**Core Studies III**
Mus 3101 — Medieval, Renaissance, and Baroque Music
Mus 3102 — Classical, Romantic, and 20th-Century Music
7 credits in Individual Performance Studies in the major area (Mus 1046 — Class Voice fulfills the requirements for one semester of voice lessons), of which a minimum of two semesters must be in the Mus 3200 — Advanced Individual Performance Studies series
Mus 4901 — Senior Project
6 additional credits in Mus courses at 3xxx or above
Courses with grades of D may not be used to meet the major requirements. Required courses may not be taken S-N except where noted.

**Minor Requirements**
20 credits including:

**Core Studies I**
Mus 1101 — Music Theory I*
Mus 1102 — Music Theory II*
and either:

**Core Studies II**
Mus 2101 — Advanced Music Theory III*
Mus 2102 — Advanced Music Theory IV*
*Concurrent enrollment in piano lessons until the piano proficiency test is passed.

**or Core Studies III**
Mus 3101 — Medieval, Renaissance, and Baroque Music
Mus 3102 — Classical, Romantic, and 20th-Century Music
Courses with grades of D may not be used to meet the minor requirement. Required courses may not be taken S-N except where noted.

**Teacher Preparation Requirements**
Students seeking teaching licensure in instrumental music K-12 or vocal music K-12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Course Descriptions**

**Mus 0100f,s. Concert Attendance.** (0 cr; repeatable 7 times; prereq major; S-N only)
Encourages concert attendance as an important aspect of learning about music—the literature, various media, performance practice, and related topics. Satisfactory completion is attendance at a minimum of 15 listed concert offerings each semester.

**Mus 1041f. Introduction to Music.** (FA; 4 cr)
Survey emphasizing development of an intelligent understanding and appreciation of music. For non-music majors.

**Mus 1042s. Fundamentals of Music.** (FA; 4 cr; not offered 2006-07)
The rudiments of music including note and rhythmic reading, scales, chords, beginning chord progressions, and practical keyboard work in the piano lab.

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

**Mus 1044f,s. Class Piano.** (ArtP; 1 cr; special fee required)
Introduction to piano performance for students with no previous piano training. Students learn basic keyboard skills, including note reading, fingering, and counting. Study beginning piano technique and learn to perform elementary-level solos and ensembles.

**Mus 1045f,s. Class Guitar.** (ArtP; 1 cr; special fee required)
Introduction to guitar performance for students with no previous guitar experience. Students learn basic guitar skills, study beginning guitar technique, and learn to perform music. This class is not for students who have played guitar before.

**Mus 1046. Class Voice.** (ArtP; 1 cr; special fee required)
Learn basic vocal technique, how to learn a song, principles of diction, basic musicianship, and sing prepared pieces in class. Prepares students for private study in voice and there will be an opportunity to audition into private voice study. Required for all first-semester voice students.

**Mus 1050f,s. Accompanying.** (ArtP; 1 cr; repeatable to 8 cr; prereq #; S-N only)
Students who accompany private lessons and recitalists may receive credit. Accompanying assignments are made through consultation with the piano faculty.

**Mus 1070f,s. Instrumental Chamber Ensemble.** (ArtP; 1 cr; repeatable to 8 cr; prereq #)
Performance of instrumental chamber music. Groups are formed according to the interests of students and availability of materials.

**Mus 1080f,s. Jazz Combo.** (ArtP; 1 cr; repeatable to 8 cr; prereq #)
Performance of instrumental jazz music with emphasis on improvisation.

**Mus 1090f,s. Vocal Chamber Ensemble.** (ArtP; 1 cr; repeatable to 8 cr; prereq #)
Performance of vocal ensemble music especially written for smaller groups.

**Mus 1101f. Core Studies I: Music Theory I.** (M/SR; 4 cr; prereq major or minor or #; concurrent enrollment in piano lessons until the piano proficiency test is passed)
First course in a series of four. Basic harmonic techniques, initial analysis of scores, and introduction to four-part writing. Must have adequate skills in grand staff music reading at the start of the course.
Divisions & Course Descriptions

Mus 1102s. Core Studies I: Music Theory II. (M/SR; 4 cr; prereq 1101, major or minor or #; concurrent enrollment in piano lessons until the piano proficiency test is passed) Harmonic progression and modulation, seventh chords, secondary dominants and sevenths, analysis of scores with attention to two- and three-part forms.

Mus 1200-1223fs. Individual Performance Studies. (ArtP; 1 cr per sem for each; repeatable to 8 cr; prereq #; special fee required) Private instruction in the following areas is open to all students. It is recommended that music majors fulfill their requirement of 7 credits in successive enrollments in order to maintain continuous emphasis in the major performance area. The 3200 series is intended for music students who have achieved an advanced performance level. A jury examination in the major performance area is required to progress to the advanced performance series. The examination provides an effective check on the music student’s progress. All music majors and other students who anticipate applying for the jury exam should enroll under A-F grading only. Note: Applied music instructors are not expected to make up sessions for absences from scheduled lessons.

Mus 1200. Piano
Mus 1201. Piano Accompanying
Mus 1202. Organ
Mus 1203. Harpsichord
Mus 1204. Voice
Mus 1205. Violin
Mus 1206. Viola
Mus 1207. Cello
Mus 1208. Double Bass
Mus 1209. Flute
Mus 1210. Oboe
Mus 1211. Clarinet
Mus 1212. Saxophone
Mus 1213. Bassoon
Mus 1214. Trumpet
Mus 1215. French Horn
Mus 1216. Trombone
Mus 1217. Baritone
Mus 1218. Tuba
Mus 1219. Percussion
Mus 1220. Recorder
Mus 1221. Guitar
Mus 1222. Electric Bass
Mus 1223. Composition

Mus 1300f,s. Concert Band. (ArtP; 1 cr; repeatable to 8 cr) Rehearsals and concerts cover standard and contemporary band literature with emphasis on concert performance. Several concerts annually in addition to a spring concert tour.

Mus 1310f,s. University Choir. (ArtP; 1 cr; repeatable to 8 cr; prereq #) Preparation of choral works for at least one public concert each semester and other special events. Emphasis on basic choral singing techniques.

Mus 1320f,s. Concert Choir. (ArtP; 1 cr; repeatable to 8 cr; prereq #) Preparation of choral works from all major periods of music literature with emphasis on concert performance. Several public concerts and appearances scheduled each semester in addition to a spring concert tour.

Mus 1330f,s. Jazz Ensemble. (ArtP; 1 cr; repeatable to 8 cr) Rehearsals and concerts cover the literature for this medium.

Mus 1340fs. Orchestra. (ArtP; 1 cr; repeatable to 8 cr) The study and preparation of standard orchestral works for performance at several public concerts and appearances each semester in addition to a concert tour. The study of basic orchestral procedure.

Mus 1401. English, Italian, German, and French Diction for Singers. (ArtP; 1 cr; A-F only) The sounds and symbols of the International Phonetic Alphabet, rules for correct English, Italian, German, and French lyric diction. Transactions of German Lieder, French Melodie, Italian Arias, and English Songs into International Phonetic Alphabet. German, French, Italian, and English songs performed in class for critique

Mus 2101f. Core Studies II: Music Theory III. (Hum; 4 cr; prereq 1102, major or minor or #; concurrent enrollment in piano lessons until the piano proficiency test is passed) Chromatic harmony of the Classical Period; borrowed chords, Neapolitan and augmented sixths; harmonic and formal analysis of scores including variation, sonata, and rondo forms.

Mus 2102s. Core Studies II: Music Theory IV. (Hum; 4 cr; prereq 2101, major or minor or #; concurrent enrollment in piano lessons until the piano proficiency test is passed) Extended chromatic harmony of the Romantic and later eras—ninth, eleventh, and thirteenth chords; altered dominants and chromatic mediants; analysis of scores including nonfunctional harmony; and twelve-tone techniques.

Mus 3101f. Core Studies III: Medieval, Renaissance, and Baroque Music. (Hist; 4 cr; prereq 1102, major or minor or #) Historical development of Western music and representative literature of the various periods and styles.

Mus 3102s. Core Studies III: Classical, Romantic, and 20th-Century Music. (FA; 4 cr; prereq 1102, major or minor or #) Historical development of Western music and representative literature of the various periods and styles.

Mus 3200-3223fs. Advanced Individual Performance Studies. (ArtP; 1 cr per sem for each; repeatable to 8 cr; prereq #) Private instruction in the major performance area for music students at an advanced level of performance. For listing of performance areas, see Mus 1200 above (excluding piano accompanying). Note: Applied music instructors are not expected to make up sessions for absences from scheduled lessons.

Mus 3301f. Instrumental Techniques—Woodwind. (1 cr; prereq major or minor or #) Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the woodwind instruments.

Mus 3302s. Instrumental Techniques—Brass and Percussion. (1 cr; prereq major or minor or #) Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the brass and percussion instruments.

Mus 3303f. Instrumental Techniques—Strings. (1 cr; prereq major or minor or #) Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the string instruments.

Mus 3304s. Vocal Techniques. (1 cr; prereq major or minor or #; not offered 2006-07) Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the voice.
Mus 3311f. Conducting Techniques. (2 cr; prereq major or minor or #; not offered 2005-06)
Instrumental and choral conducting skills.

Mus 3321s. Instrumental Conducting and Materials. (2 cr; prereq 3311, major or minor or #; not offered 2005-06)
Specialization of instrumental conducting and a survey of ensemble materials for various levels of ability and maturity.

Mus 3331s. Choral Conducting and Materials. (2 cr; prereq 3311, major or minor or #; not offered 2005-06)
Specialization of choral conducting and a survey of ensemble materials for various levels of ability and maturity.

Mus 3351. Instrumental Arranging. (ArtP; 2 cr; prereq 1102 or #; A-F only; not offered 2006-07)
Theoretical study of orchestral and band instruments and special problems of scoring and arranging for small and large instrumental ensembles.

Mus 3352. Choral Arranging. (ArtP; 2 cr; prereq 1102 or #; A-F only; not offered 2006-07)
Practical study of arranging for vocal ensembles and for vocal ensembles with instruments; exercises dealing with special problems and limitations of different age and ability groups.

Mus 3400s. Opera Workshop. (ArtP; 1 cr; repeatable to 4 cr; prereq #)
Practical introduction to opera performance. Students become familiar with a number of operas and musical comedies and perform selections emphasizing ensemble work.

Mus 3993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Mus 4101s. Form and Analysis. (4 cr; prereq 1102, major or minor or #; not offered 2005-06)
Analysis of musical forms, including harmonic and melodic structure of the phrase, the binary principle, the ternary principle, sonata allegro, rondo, and later alterations of the forms.

Mus 4102. Counterpoint. (FA; 4 cr; prereq 2102 or #; not offered 2006-07)
Contrapuntal techniques of the 18th century with references to earlier 16th century species counterpoint.

Mus 4901f,s. Senior Project. (1 cr; prereq major; #; S-N only)
Culminating activity that allows a graduating student to demonstrate competence as a musician. Projects may take the form of a solo recital, lecture-recital, research paper, chamber music recital, or other major study. Project should be determined in the student’s junior year and approved by the music faculty. Majors taking Mus 3200 through 3223 normally satisfy this requirement with a senior recital.

Continuing Education Courses
Mus 3051f. CE: Piano Pedagogy I. (ArtP; 2 cr; prereq 1200 or #; not offered 2005-06)
This course is a study, demonstration, and discussion about the various elements of piano teaching methods, techniques, and materials for elementary and early intermediate levels. This includes analysis of various piano courses and piano literature, discussion of technical regimes, ideas for private and group lessons, and planning for the practical business aspect of teaching. Recommended for piano majors.

Mus 3052f. CE: Piano Pedagogy II. (ArtP; 2 cr; prereq 1200 or #; not offered 2006-07)
This course covers much intermediate literature from each of the four major periods of music with practical ideas to put into immediate use by current teachers. Piano literature to motivate and retain students as well as the study of performance practices as they relate to each musical style are emphasized.

Mus 3061. CE: Guitar Pedagogy. (ArtP; 2 cr; prereq 1221 or #)
Discussions and readings on guitar pedagogy, private and group lessons, instructing young students, practice methods, and business issues associated with self-employment in teaching music. Instruction of beginners in a one-on-one situation and classroom presentation of lessons.

Mus 3065. CE: Introduction to Creative Guitar Repertoire. (ArtP; 1 cr; prereq 1221 or #)
Exploration of guitar styles and genera. Rather than master each style, students write original pieces or arrangements based on each style. Professional musicians present guest lectures and give private lessons. Course culminates in a concert featuring student compositions.

Natural Science (NSci)

This discipline is in the Division of Science and Mathematics.

Objectives—Courses in this group give students the opportunity to study scientific topics that reach across the boundaries of the traditional disciplines.

Course Descriptions
NSci 1051. The State of the Planet. (Envt; 4 cr; offered when feasible)
An investigation of the present physical state of the soil, water, and atmosphere of the earth and how these important systems are changing. Soil generation and erosion, desertification, the hydrologic cycle, global climate change, ozone depletion.

NSci 2102. Field Experience in Natural History: The Italian Alps. (Sci; 4 cr; offered when feasible)
Study of the geology, soils, vegetation, and glaciers of the Italian Alps. Understanding the geologic history, Paleozoic evolution and extinction, mountain building, climate change; the “iceman” and early human habitation of the region; influence of the natural setting on humans and environmental problems associated with human development.

NSci 3100. Scientific Biography and Autobiography. (2 cr; repeatable to 4 cr with #; prereq #; offered when feasible)
The life, work, and times of eminent scientists through biography and autobiography.

NSci 3201. Relativity and Cosmology. (Sci; 4 cr; prereq Math 1102, Phys 1102 or #; prereq participation in Honors Program or #; offered when feasible)
Philosophy (Phil)
This discipline is in the Division of the Humanities. The philosophy program provides an environment in which students receive rich, well-rounded instruction in philosophy whose pursuit is essential to a liberal arts education.

Objectives—The philosophy program is designed to offer students the opportunity to study systematically the works of significant figures in philosophy; investigate the fundamental problems and systems of thought that frame philosophical inquiry; develop the ability to think and write critically and effectively; and cultivate the logical, analytical, and conversational skills necessary for stimulating and fruitful philosophical inquiry.

Major Requirements
Phil 2101 — Introduction to Symbolic Logic
Any one from:
- Phil 1101 — Introduction to Philosophy
- Phil 2111 — Introductory Ethics
- Phil 2141 — Introduction to Analytic Feminism
- Phil 2151 — Philosophy of Mind

Any two from:
- Phil 3121 — Political Philosophy
- Phil 3131 — Philosophy of Law
- Phil 4100 — Moral Issues and Theories
- Phil 4111 — Ethical Theory

Any two from:
- Phil 3101 — Metaphysics
- Phil 3141 — The Theory of Knowledge
- Phil 4121 — Philosophy of Language
- Phil 4130 — Contemporary Issues in Philosophy
- Phil 4131 — Personal Identity, Names, and Essences

Any one from:
- Phil 3151 — History of Ancient Philosophy
- Phil 3161 — History of Medieval Philosophy
- Phil 3171 — History of Modern Philosophy
- Phil 4000 — History of Philosophy Seminar
- Phil 4002 — Existentialism

Courses with grades of D may not be used to meet the major requirements.
Required courses may not be taken S-N unless offered S-N only.

Minor Requirements
Phil 2101 — Introduction to Symbolic Logic
Any one from:
- Phil 1101 — Introduction to Philosophy
- Phil 2111 — Introductory Ethics
- Phil 2141 — Introduction to Analytic Feminism
- Phil 2151 — Philosophy of Mind

Any one from:
- Phil 3121 — Political Philosophy
- Phil 3131 — Philosophy of Law
- Phil 4100 — Moral Issues and Theories
- Phil 4111 — Ethical Theory

Any one from:
- Phil 3101 — Metaphysics
- Phil 3141 — The Theory of Knowledge
- Phil 4121 — Philosophy of Language
- Phil 4130 — Contemporary Issues in Philosophy
- Phil 4131 — Personal Identity, Names, and Essences

Any one from:
- Phil 3151 — History of Ancient Philosophy
- Phil 3161 — History of Medieval Philosophy
- Phil 3171 — History of Modern Philosophy
- Phil 4000 — History of Philosophy Seminar
- Phil 4002 — Existentialism

Courses with grades of D may not be used to meet the minor requirements.
Required courses may not be taken S-N unless offered S-N only.

Course Descriptions
Phil 1101. Introduction to Philosophy, (Hum; 4 cr)
An introduction to fundamental philosophical problems, in areas such as metaphysics (what exists?), epistemology (what can we know? and how can we know it?), and ethics (what actions are moral and immoral? and what is the good life?), with an emphasis on developing the reading, writing, and analytical skills required for philosophical investigation.

Phil 2101f. Introduction to Symbolic Logic, (M/SR; 4 cr)
An introduction to formal or deductive logic, including basic concepts of logical argumentation; Aristotelian logic; and symbolic translations, truth tables, and theory of deduction. Samples from political speeches, philosophical essays as well as original LSAT questions are analyzed.

Phil 2101s. Introductory Ethics, (Hum; 4 cr)
An introduction to ethical theories, including basic concepts of logical argumentation; Aristotelian logic; and symbolic translations, truth tables, and theory of deduction. Samples from political speeches, philosophical essays as well as original LSAT questions are analyzed.

Phil 2111s. Introductory Ethics, (Hum; 4 cr)
An introduction to ethical theories, including basic concepts of logical argumentation; Aristotelian logic; and symbolic translations, truth tables, and theory of deduction. Samples from political speeches, philosophical essays as well as original LSAT questions are analyzed.

Phil 2112f. Professional Ethics, (E/CR; 4 cr)
A critical examination of moral issues that arise in a person’s professional life. Possible topics include affirmative action, autonomy in the workplace, ethical issues in advertising, corporate responsibility, coercive wage offers, distributive justice, and sexual harassment. Issues concerning race, gender, and women are included in selected modules.
Phil 2141s. Introduction to Analytic Feminism. (Hum; 4 cr)
Applies an analytical approach to issues discussed in feminist writings. A mixture of lecture and discussion. Requirements include essay exams, papers, attendance, and class participation.

Phil 2151. Philosophy of Mind. (Hum; 4 cr)
An introduction to several problems in the philosophy of mind, such as the mind/body problem, functionalism, artificial intelligence.

Phil 3101f. Metaphysics. (Hum; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2006-07)
Explores fundamental metaphysical issues such as the nature of reality, the notion of personal identity, the relationship between language, thought, minds, and the world. Philosophical works of both classic and contemporary philosophers such as Plato, Aristotle, Quine, Putnam, and Kripke are discussed.

Phil 3121f. Political Philosophy. (SS; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2005-06)
Explores fundamental issues in political philosophy (e.g., political authority; distributive justice; nature, origin, and justification of the state; natural and civil rights) by, among other things, an examination of the works of philosophers such as Plato, Aristotle, Boethius, Anselm, Bonaventure, Aquinas, and Ockham.

Phil 3131s. Philosophy of Law. (SS; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2006-07)
Critical examination of theoretical and practical normative issues in the philosophy of law (e.g., nature of law, justification of punishment, plea bargaining, legal and moral responsibility, and civil disobedience).

Phil 3141f. The Theory of Knowledge. (Hum; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2006-07)
Explores historical and contemporary views on the limits, justification, and nature of human knowledge. Topics include experiential versus a priori knowledge, the nature of belief, skepticism, and different theories of justification.

Phil 3151f. History of Ancient Philosophy. (Hist; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2005-06)
Explore the views of philosophers such as Plato, Aristotle, Epicurus, and the Stoics. Possible topics include ancient views on the nature and possibility of knowledge, the relationship of the soul to the body, and what the good life is for a human being.

Phil 3161s. History of Medieval Philosophy. (Hist; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2005-06)
Explore views of philosophers such as Augustine, Boethius, Anselm, Bonaventure, Aquinas, and Ockham. Possible topics include the relationship between faith and reason, the problem of God’s foreknowledge and human freedom, and proofs for God’s existence.

Phil 3171s. History of Modern Philosophy. (Hist; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2006-07)
Explore views of philosophers such as Descartes, Leibniz, Berkeley, Hume, and Kant. Possible topics include the relationship of the mind to the body, and whether and how it is possible to have knowledge of the external world.

Phil 4000f. History of Philosophy Seminar. (Hist; 4 cr; repeatable to 8 cr when topic changes; prereq any 1xxx or 2xxx course or #; not offered 2006-07)
Intensive investigation of a particular philosophical problem, area, or work of a philosopher. Topics vary.

Phil 4002. Existentialism. (Hist; 4 cr; prereq any 1xxx or 2xxx course or #)
Examination of some prominent thinkers often classified as “existentialists”: Kierkegaard, Dostoevsky, Nietzsche, Sartre, and Camus. Topics include what human freedom is, what makes a life authentic (or inauthentic), what role passion and choice should play in acquiring our beliefs and values, and what difference (if any) God’s existence or non-existence makes on the significance of our lives.

Phil 4100f. Moral Issues and Theories. (Hum; 4 cr; repeatable to 8 cr when topic changes; prereq any 1xxx or 2xxx course or #; not offered 2006-07)
Intensive investigation of a particular problem, area, issue, or theory in moral philosophy. Possible topics include moral responsibility, autonomy, weakness of will, and self-deception. Topics vary.

Phil 4111s. Ethical Theory. (Hum; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2005-06)
This course in metaethics focuses on the nature of moral obligation. Topics include: Can moral obligations change with the passage of time? Are genuine moral dilemmas possible? Does “ought” imply “can”?” Is moral obligation overriding? Is there a genuine distinction between “subjective” and “objective” moral obligation?

Phil 4121s. Philosophy of Language. (Hum; 4 cr; prereq any 1xxx or 2xxx course or #; not offered 2005-06)
Traditional and contemporary discussions of philosophical problems such as the nature of language; its relationships to the world, to human thought, and to truth; the nature of logical reasoning; metalogical problems. Readings from philosophers such as Frege, Russell, Quine, Putnam, Goodman, Wittgenstein, and Kripke.

Phil 4130s. Contemporary Issues in Philosophy. (Hum; 4 cr; repeatable to 8 cr; prereq any 1xxx or 2xxx course or #; not offered 2006-07)
Exposure to, and critical examination of, philosophical issues of special contemporary interest. Topics may include the nature of analytic philosophy and its relationship to other philosophical traditions such as continental or feminist philosophy, the debate on realism and anti-realism, the notion of objectivity.

Phil 4131. Personal Identity, Proper Names, and Essences. (Hum; 4 cr; prereq any 1xxx or 2xxx course or #)
A seminar primarily devoted to the discussion of readings, including Naming and Necessity by Saul Kripke and Reasons and Persons by Derek Parfit. Questions such as: How do proper names function? Are there essential features of persons or objects? What makes each of us the same particular individual over time?

Phil 4901. Senior Philosophical Defense. (2 cr)
Writing and defending a senior philosophical thesis is the culminating experience for UMM philosophy majors. Majors develop a piece of their philosophical writing, producing multiple drafts in response to comments from a variety of philosophical viewpoints, and then orally defend their thesis.

Phil 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)
Division Structure and Course Descriptions

Physical Education and Athletics (PE)
(See Wellness and Sport Science.)

Physical Science (PSci)
(See Natural Science.)

Physics (Phys)
This discipline is in the Division of Science and Mathematics.

Objectives — The physics program is designed to help students understand the concepts of classical and modern physics while also developing their ability to solve quantitative problems in these areas. It provides the opportunity for students to acquire the skills necessary to perform experimental work. The program develops students’ ability to communicate, in form and content, both verbally and in writing, the results of scientific work.

The physics program offers a background suitable for students planning to pursue graduate study or careers in industry, research, or teaching. It also provides a solid foundation for any career requiring analytical reasoning.

Major Requirements
Phys 1101-1102 — General Physics I-II (or advanced placement)
Phys 2101 — Modern Physics
Phys 2201 — Circuits and Electronic Devices
Phys 3101 — Classical Mechanics
Phys 3401 — Experimental Physics
Phys 4101 — Electromagnetism
Phys 4201 — Quantum Mechanics
One additional four credit course numbered Phys 3xxx or 4xxx
Phys 4901 — Senior Thesis
Math 1101-1102-2101 — Calculus I-II-III
Math 2401 — Differential Equations

Required courses may not be taken S-N. The GPA in these courses must be at least 2.50.

Teacher Preparation Requirements
Students seeking teaching licensure in physics 9-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions
Phys 1052f. The Solar System. (Sci-L; 5 cr; no cr for students who have received cr for Phys 1051)
History of astronomy; motions of celestial objects; gravity and electromagnetic radiation; the Earth and Moon; the planets and their moons; meteors and asteroids; the Sun; telescopes and other astronomical instruments. Stars and constellations of the fall sky. Night viewing sessions required. (4 hrs lect, 2 hrs lab)

Phys 1053s. Introduction to Stars, Galaxies, and Cosmology. (Sci; 4 cr)
Gravitation and electromagnetic radiation; nuclear physics; stellar properties; stellar evolution; galaxies; quasars; and cosmology. Stars and constellations of the winter sky. Night viewing sessions required. (4 hrs lect)

Phys 1061f. Physics of Sound and Music. (Sci; 4 cr)
Wave characteristics, sound properties, resonance, the human voice and hearing, basic musical instruments, analysis and synthesis of complex waves, acoustics.

Phys 1091f. Principles of Physics I. (Sci-L; 5 cr; prereq high school higher algebra)
Introduction to physics without the use of calculus. Vectors, kinematics, Newton’s laws of motion, work and energy, momentum, torque, fluids, thermal physics, laws of thermodynamics, oscillations and waves. (4 hrs lect, 2 hrs lab)

Phys 1092s. Principles of Physics II. (Sci-L; 5 cr; prereq 1091)
Coulomb’s law, electric fields, electric potential, capacitance, electric current, resistance, DC circuits, magnetism, induction, reflection and refraction of light, mirrors and lenses, interference and diffraction, optical instruments, radioactivity. (4 hrs lect, 2 hrs lab)

Phys 1101s. General Physics I. (Sci-L; 5 cr; prereq Math 1101 or #)
Vectors, kinematics, laws of motion, circular motion, work-energy theorem, conservation principles, rotational motion, gravitation, simple harmonic oscillations, wave phenomena, fluid mechanics, thermal properties of matter, kinetic theory, laws of thermodynamics. (4 hrs lect and rec, 2 hrs lab)

Phys 1102f. General Physics II. (Sci-L; 5 cr; prereq 1101, Math 1102 or #)
Coulomb’s law, electric field, Gauss’s law, electric potential, capacitance, dielectrics, current, resistance, circuits, magnetic field, Ampere’s law, inductance, Faraday’s law, AC circuits, Maxwell’s equations, electromagnetic waves, nature of light, reflection, refraction, optical instruments, interference, diffraction. (4 hrs lect and rec, 2 hrs lab)

Phys 2101s. Modern Physics. (Sci-L; 5 cr; prereq 1102, Math 2401 or #)
Special relativity, quantum nature of matter and radiation, Bohr-Sommerfeld atom, atomic spectra, uncertainty principle, Schrödinger equation, hydrogen atom, electron spin, Pauli principle, periodic table, radioactivity, fission and fusion of nuclei, properties of nuclei. (4 hrs lect, 2 hrs lab)
Phys 2201s. Circuits and Electronic Devices. (Sci-L; 4 cr; prereq 1102 or #) A hands-on practical course in electronics. Analog electronics including AC and DC circuit analysis, passive circuit elements, pn junctions, transistors, and op-amp circuits. Digital electronics including combinational logic, sequential logic, memory, CPU, and assembly programming. (3 hrs lect, 3 hrs lab)

Courses numbered 30xx can include topics in astrophysics electronics, laser physics, physics of fluids, plasma physics, superfluidity and superconductivity, solid state physics, spectroscopy, and other fields. Currently offered courses are:

Phys 3001f. Astrophysics. (Sci; 4 cr; prereq 2101; offered when feasible) Topics may include but need not be restricted to spectroscopy, radiative transfer, solar system evolution and dynamics, stars and stellar evolution, galaxies, and cosmology. (4 hrs lect)

Phys 3002. Biological and Medical Physics. (Sci; 4 cr; prereq 1101, 1102; 2101 recommended) Selected topics in biophysics with an emphasis on modern medical imaging techniques. Biophysical topics include fluid flow in cardiovascular systems, molecular transport, and the nervous system. Physics techniques covered include electrocardiography, microscopy, x-ray imaging, magnetic resonance imaging, ultrasound imaging, computer tomography, and image reconstruction.

Phys 3101f. Classical Mechanics. (Sci; 4 cr; prereq 2101, Math 2101 or #; not offered 2005–06) Kinematics and dynamics of a particle, oscillations, central-force motion, systems of particles, rigid-body rotations, gravitation, non-inertial coordinate systems, Lagrangian and Hamiltonian formulations, dynamics of rigid bodies. (4 hrs lect)


Phys 3301s. Optics. (Sci-L; 4 cr; prereq 2101; not offered 2006–07) Light as a wave phenomenon, electromagnetic nature of light, Huygen’s principle, interference, diffraction—Fraunhofer and Fresnel, polarization, dispersion, absorption and scattering. (3 hrs lect, 3 hrs lab)

Phys 3401f. Experimental Physics. (Sci-L; 4 cr; prereq 2101) An introduction to modern experimental methods. (3 hrs lect, 3 hrs lab)


Phys 4101f. Electromagnetism. (Sci; 4 cr; prereq 2101, Math 2101 or #; not offered 2006–07) Vector calculus, electrostatics, Laplace and Poisson equations, dielectrics, magnetostatics, magnetic properties of matter, electromagnetic induction, Maxwell’s equations, electrodynamics, electromagnetic waves. (4 hrs lect)

Phys 4201s. Quantum Mechanics. (Sci; 4 cr; prereq 2101, Math 2101) Uncertainty principle, Schrödinger equation, commutation relations, momentum space wave functions, Dirac notation, applications to problems in one dimension and the hydrogen atom, angular momentum. (4 hrs lect)

Phys 4901f. Senior Thesis. (1 cr; prereq sr; course begins in fall and runs all year) Capstone experience in physics. Investigation of a selected topic of current interest in physics. Presentation of results orally and in writing.

Phys 1993, 2993, 3993, 4993. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

**Political Science (Pol)**

This discipline is in the Division of the Social Sciences.

Objectives—Students who complete the political science major are able to critically analyze not only the behavior of political actors, but also their respective political institutions and political systems. The main objectives of the political science major are to enable students to use strong analytical skills and critical thinking in their analysis of theories, institutions, and processes in political science. The program prepares students for work in government and private business, and it prepares students for additional training in law and graduate programs.

A political science major is expected to show knowledge of political institutions, behavior, and processes in domestic and/or international settings. Students learn how and why governments are structured, operate, make policy, and manage social conflict. A political science major is expected to demonstrate a critical understanding of the major schools of political thought. Upon completion of the major, students of political science:

1. have the ability to critically analyze, interpret, and synthesize the theories that are prevalent in a major subfield of political science
2. are more empowered to participate in government due to increased familiarity with politics and government
3. are adequately prepared for entrance into graduate or professional school.

**Major Requirements**

Major requirements include a minimum of 36 credits taken within the political science discipline, as well as either Stat 1601 or Stat 2601. Students majoring in Political Science are required to complete any two of the four introductory courses:
Divisions & Courses

Pol 1101 — Introduction to Political Inquiry: Thinking about Politics
Pol 1201 — American Government and Politics
Pol 1301 — Comparative Politics
Pol 1401 — World Politics

Political science majors must also complete all of the requirements in at least one of the following subfields:

**Subfield I: American Politics**

Pol 1201 — American Government and Politics
12 upper division credits in the American politics subfield (Pol 32xx or 42xx)
8 upper division credits in political theory (Pol 33xx or 43xx), international relations (Pol 34xx or 44xx), and/or comparative politics (Pol 35xx or 45xx)
4 additional elective credits in Pol 3xxx or 4xxx courses (Pol 4901 not eligible)

Pol 4901 — Senior Research Seminar in American Government

**Subfield II: International Relations and Comparative Politics**

Pol 1301 — Comparative Politics
or Pol 1401 — World Politics
12 upper division credits in the international relations and comparative politics subfield (Pol 34xx, Pol 35xx, 44xx, 45xx)
8 upper division credits in American politics (Pol 32xx or 42xx) and/or political theory (Pol 33xx or 43xx)
4 additional elective credits in Pol 3xxx or 4xxx courses (Pol 4902 not eligible)

Pol 4902 — Senior Research Seminar in International Relations and Comparative Politics

**Subfield III: Political Theory**

Pol 1101 — Introduction to Political Inquiry: Thinking about Politics
12 upper division credits in the political theory subfield (Pol 33xx or 43xx)
8 upper division credits in American politics (Pol 32xx or 42xx), international relations (Pol 34xx or 44xx), and/or comparative politics (Pol 35xx or 45xx)
4 additional elective credits in Pol 3xxx or 4xxx courses (Pol 4903 not eligible)

Pol 4903 — Senior Research Seminar in Political Theory

Courses with grades of D may not be used to meet the major requirements.

The political science discipline strongly recommends that students take advantage of opportunities in internships, field studies, and study abroad.

**Minor Requirements**

The political science minor requires at least 20 political science credits. Minors must complete any 1 of the 4 introductory courses:

Pol 1101 — Introduction to Political Inquiry: Thinking about Politics
Pol 1201 — American Government and Politics

Pol 1301 — Comparative Politics
Pol 1401 — World Politics

At least 8 of the 20 must be upper division Pol 3xxx or 4xxx credits

Courses with grades of D may not be used to meet the minor requirements.

**Teacher Preparation Requirements**

Students seeking teaching licensure in social studies 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Course Descriptions**

Pol 1101f. Introduction to Political Inquiry: Thinking about Politics. (E/CR; 4 cr)

Origins and development of politics and government. Survey of contemporary political institutions and behavior. Major perennial questions are investigated at length and in depth. Critical thinking and class discussion provide the focus of the course.

Pol 1201f,s. American Government and Politics. (E/CR; 4 cr)

Analysis of principles, organization, procedures, and powers of government in the United States. The federal system, national constitution, civil and political rights, party system; nature, structure, powers, and procedures of legislative, executive, and judicial departments of the national government.

Pol 1301s. Comparative Politics. (IP; 4 cr)

Examines the nature of political authority, experience of social revolution, and achievement of economic transformation in the context of politics and government in selected countries around the world.

Pol 1401f. World Politics. (IP; 4 cr)

The contemporary international system, including nationalism, international political economy, foreign policy formulation, and global concerns such as the environment and conflict. North/South debate, definitions of power, the new world order, regional vs. global conflicts, and avenues of cooperation.

Pol 3101s. Political Science Analysis. (SS; 4 cr; prereq Stat 1601 or Stat 2601 or #; not offered 2006-07)

Techniques commonly used in the systematic study of politics. Application of statistical techniques to recently released data using statistical software. Topics include the use of multivariate regression in political science and/or logistic regression, survey methodology, experimental design, and game theory.

Pol 3201f. Legislative Process. (SS; 4 cr; prereq 1201 or #; Stat 1601 or 2601 recommended)

The internal organization of Congress, with emphasis on how rules and organizational changes affect the policy process. Topics include the evolution of the modern Congress, the committee system, the role of party leadership, and competing theories of congressional organization. In addition, comparisons/contrasts are drawn from other legislatures in democracies around the world.

Pol 3231s. Constitutional Law: Civil Liberties and Civil Rights. (HDiv; 4 cr; prereq 1201 or #; not offered 2006-07)

Examination of major Supreme Court opinions in the areas of freedom of religion, speech, assembly, and the press. Topics include the definitions of obscenity and libel, the Court’s struggle with the right to privacy, and civil rights.
Political Science

Pol 3232s. Constitutional Law: Governmental Powers and Constraints. (SS; 4 cr; prereq 1201 or #; not offered 2005-06) Examination of major Supreme Court opinions in the areas of congressional, executive, and judicial authority; nation-state relations; and economic liberties. Topics include substantive vs. procedural due process, the Takings Clause, the contract clause, and the powers to tax and spend.

Pol 3251f. Political Participation and Voting Behavior. (SS; 4 cr; prereq 1201 or #; not offered 2005-06) This course provides a broad overview of factors influencing the political behavior of groups and individuals both within and outside institutions. Particular emphasis is placed on examining issues such as voter turnout, economic influences on voting patterns, and social movement mobilization.

Pol 3261s. State and Local Politics. (SS; 4 cr; prereq 1201 or #; not offered 2006-07) This course examines theoretical discussions of American democracy in the context of the actual performance of American government and society on a variety of levels. Particular emphasis is placed on the ways American democracy functions on the subnational level in states, rural communities, and urban centers. Analysis of principles, organizations, procedures, and functions of state and local government, both urban and rural, in the United States.

Pol 3262f. Minorities and Public Policy. (Hum; 4 cr; prereq 1201 or #; not offered 2006-07) Analysis of the ways race, ethnicity, and other factors shape political engagement; their implications for public policy and the policy process.

Pol 3263f. Political Psychology. (SS; 4 cr; prereq 1201; Psy 1051 or # recommended; not offered 2005-06) Examines the utility of concepts from personality and social psychology for conducting political analysis and understanding political behavior. Explores the role of the individual, group processes, and the political context in political decision making by both leaders and nonleaders.

Pol 3351f. Political Thought: Ancient and Middle Ages. (Hum; 4 cr; prereq 1101 or #) Survey of classical Greek thought, Plato and Aristotle, primitive natural law, Cynics and Stoics, theory in Roman Republic and Empire, early Christianity and the church fathers, moral theory and political theory, empire and church in ideology, Roman and canon law, St. Thomas, political thought in the 14th and 15th centuries.

Pol 3352s. Political Thought: Modern. (Hum; 4 cr; prereq 1101 or #) Machiavelli; theories during the Renaissance, Reformation, and Counter-Reformation. Early modern absolutism, the emergence of modern contract theory, constitutionalism, liberalism, and utopianism.

Pol 3353s. American Political Thought. (Hum; 4 cr; prereq 1101 or #; not offered 2005-06) Development of the American political tradition from the Puritan theocracy to recent phases of American political life.

Pol 3401f. U.S. Foreign Policy. (SS; 4 cr; prereq 1401 or #) Institutions and processes of American foreign policy. Major factors to be considered and levels of analysis that allow for the examination and dissection of foreign policy decisions. Case study analysis, e.g., Cuban Missile Crisis, Vietnam, Iran/Contra-gate.

Pol 3411s. International Law. (E/CR; 4 cr; prereq 1401 or #; not offered 2006-07) Relations of international law to individuals, states, the international community, jurisdictional problems, survey of principles developed by diplomatic agents and consuls, treaties, arbitration, treatment of aliens, pacific settlement. War and hostile measures short of war, military occupation, war crimes, neutrality, collective security sanctions.

Pol 3421s. International Organizations. (E/CR; 4 cr; prereq 1401 or #; not offered 2005-06) Origins of diplomacy and its role in maintaining communication among nations, including the recent and special role of international organizations. History of the practice of diplomacy, current bilateral diplomatic practices, and multilateral interactions as practiced through the United Nations and the League of Nations before it. Structure and functional agencies of the U.N. and role in international peacekeeping or collective security.

Pol 3453s. Russian Politics and Foreign Policy. (IP; 4 cr; prereq 1401 or #; not offered 2005-06) Domestic and foreign policies of the former Soviet Union from the Bolshevik Revolution to the present. Nature of the Soviet empire, implosion of the Soviet Union, Russian Federalism, democratic and market reforms, ethnic conflicts, nuclear strategy, military policy, and diplomatic style.

Pol 3501. Government and Politics of Asia. (SS; 4 cr; prereq 1301 or #; offered when feasible) Examination of governments, political and leadership changes, and economic developments in China, Japan, and Korea. Modernization, democratization, political pluralism, revolution, authoritarianism, and civil-military relations.

Pol 3502f. Government and Politics of Europe. (SS; 4 cr; prereq 1301 or #; not offered 2005-06) The comparative study of contemporary government/politics in Europe. Emphasizes influence of economic, cultural, and other factors. Parties, bureaucracy, legislatures, executives: way in which they reflect and contribute to political life.

Pol 3504s. Latin American Politics. (IP; 4 cr; prereq 1301 or #) A comparative examination of central issues in and components of Latin American political life, including economic development, regimes and alliances, guerrilla wars, the armed forces, human rights, and democratic consolidation. Countries may include Argentina, Brazil, Chile, Colombia, El Salvador, and Cuba.

Pol 3505f. Military and Political Development. (IP; 4 cr; prereq 1301 or #) Explores military intervention in government and the influence of the military on social and economic policies in a variety of regions.

Pol 3506f. Government and Politics of Africa. (IP; 4 cr; prereq 1301 or #) Comparative study of government and politics of contemporary Africa, with special attention to state/society relations, interaction of politics and economic development, political institutions, and conflict.
Pol 396f,s. Field Study in Political Science. (1-16 cr; repeatable to 16 cr; max of 4 cr may be applied to the major or minor; prereq #) Field study of governmental organization; internship with legislature, a state or local administrative office, lobbying group, or other position involving direct experience with government, governmental officials, or political organizations and environment.

Pol 4211s, The American Presidency. (SS; 4 cr; prereq 1201 or #; Stat 1601 or 2601 recommended; not offered 2005-06) Traces the development of the American presidency over time. Major theories of presidential behavior and success are examined, as well as the literature on presidential popularity and executive/congressional relations.

Pol 4221f, Judicial Politics. (SS; 4 cr; prereq 1201 or #; Stat 1601 or 2601 recommended; not offered 2006-07) Role of judges, police, attorneys, and interest groups within the political system, with analysis focusing on each as political actors. Areas of discretion in the legal system. Extra-legal predictors of judicial decision making and certification voting.

Pol 4254s, American Political Culture. (Hist; 4 cr; prereq 1201 or #; not offered 2005-06) A survey of the ideas shaping the U.S. political system and Americans’ political behavior. Examines the ways that U.S. political culture has shaped institutional development, policy outcomes, and the everyday political experiences within the political system.

Pol 4266s, Media and Politics. (SS; 4 cr; prereq 1201 or #; not offered 2006-07) Relationships between mass media, government, and public in American democracy. Democratic theory and media/press, role of informed citizenry in theories of U.S. democracy, role of media in informing the U.S. citizenry. Ways media influences public opinion, relationship of media, public opinion, and elites in politics.

Pol 4301s, Contemporary Political Ideologies. (Hum; 4 cr; prereq 1101 or #) Major currents of political theory from Marx to present: Marxism, socialism, syndicalism, anarchism, fascism, political ideologies of antidemocratic thought, and totalitarian regimes.

Pol 4451s, Comparative Foreign Policy. (IP; 4 cr; prereq 1401 or #) Comparative examinations of foreign policies of selected countries, i.e., the United States, China, and Russia (the Soviet Union). The rise and fall of the Cold War; the triangular relationship between Washington, Beijing, and Moscow; Russia’s new foreign policy; and U.S. foreign and security policy in the post-Cold War era.

Pol 4452, International Relations Theory. (IP; 4 cr; prereq 1401 or #; offered when feasible) Theory and practice of contemporary international relations. Realism and idealism, national power, systems theory, integration theory, war and peace, conflict resolution, and the world government.

Pol 4503s, Women in Politics Worldwide. (IP; 4 cr; prereq 1201, 2101 or #; not offered 2005-06) Examines the ways gender influences politics throughout the world. Topics covered include the “gender gap” and voter turnout; women’s involvement in linkage organizations, such as parties and interest groups; and finally, policy outcomes regarding women in different kinds of political systems.

Pol 4507s, Political Violence. (IP; 4 cr; prereq 1301 or #; not offered 2006-07) Examination of causes, processes, and outcomes of violent social conflict, including repression, mass political protests, riot revolt, terrorism, and revolution.

Pol 4901f, Senior Research Seminar in American Government. (SS; 4 cr; prereq sr, 1201 or #) Guided research in American political institutions and processes. With the assistance of a faculty member, each student formulates testable research questions about some aspect of American government, develops a research design to address those questions, conducts a literature review, gathers data (either quantitative or qualitative), tests the hypotheses, writes up the findings, and makes an oral presentation of the work to the discipline faculty and graduating seniors.

Pol 4902f, Senior Research Seminar in International Relations and Comparative Politics. (IP; 4 cr; prereq sr, 1301 or 1401 or #) Guided research in international relations and comparative politics. With the assistance of a faculty member, each student formulates testable research questions about some aspect of international relations and comparative politics, develops a research design to address those questions, conducts a literature review, gathers data (either quantitative or qualitative), tests the hypotheses, writes up the findings, and makes an oral presentation of the work to the discipline faculty and graduating seniors.

Pol 4903f, Senior Research Seminar in Political Theory. (Hum; 4 cr; prereq sr, 1101 or #) Guided research in political theory. With the assistance of a faculty member, each student develops a research design to identify and address an important problem in the political theory literature, conducts a literature review, critically analyzes the material, summarizes the work in the form of a significant research paper, and makes an oral presentation of the work to the discipline faculty and graduating seniors.

Pol 4905f, 4993f,s, 2993f,s, 3993f,s, 4993f,s, Directed Study. (1-5 cr; repeatable to 10 cr; prereq pol sci major, approved directed study form) Individual research topics; normally restricted to political science majors.

Continuing Education Courses

Pol 3267. CE: Courtroom Proceedings in American State and Federal Courts. (SS; 4 cr; prereq 1201 or #; offered when feasible) Undergraduate courtroom procedure by observation of actual courtroom activity. Observation of a wide range of judicial proceedings, including arraignments, trials, sentencing, involuntary commitments to mental and alcohol treatment facilities, and the acceptance of negotiated settlements and/or plea-bargains. Observation of state and federal courts at both the trial and appellate level.
Psychology (Psy)

This discipline is in the Division of the Social Sciences. The psychology curriculum focuses on understanding scientific methods and applying them to the problems of the behavioral sciences and individual and social human behavior. It provides students with basic methodological skills, practice in applying these skills, and an introduction to core areas of psychology. The courses meet the needs of liberal arts students as well as students planning to specialize in one of the fields of psychology at the graduate level.

Objectives — 1) Awareness of the range of knowledge in psychology; 2) competency in translating behavioral questions into the terms of scientific inquiry; 3) competency in reading and critically synthesizing the technical literature in psychology; 4) competency in quantifying and statistically analyzing behavior; 5) awareness of ethical issues in psychology.

Major Requirements

Psy 1051—Introduction to Psychology
Psy 2001—Research Methods in Psychology
Stat 1601—Introduction to Statistics
or Stat 2601—Statistical Methods
IS 4101—Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services

At least one course from:

- Psy 3101—Learning Theory and Behavior Modification
- Psy 3111—Sensation and Perception
- Psy 3112—Cognition
- Psy 3201—Comparative Psychology
- Psy 3211—Biological Psychology

20 additional credits in Psy 3xxx or 4xxx courses
or Mgmt 3151—Human Resources Management I
or Pol 3263—Political Psychology

At least 14 credits of which must be earned in courses other than:

- Psy 4101—Helping Relationships
- Psy 4896—Field Experiences In Psychology
- Mgmt 3151—Human Resources Management I
- Pol 3263—Political Psychology

and which must include an approved empirical research project of at least 4 credits or its equivalent. The approved research project is normally completed in one of the empirical investigations sequences:

- Psy 4610-4710—Empirical Investigations in Cognitive Psychology I-II
- Psy 4620-4720—Empirical Investigations in Biological Psychology I-II
- Psy 4630-4730—Empirical Investigations in Personality, Psychopathology, and Psychological Intervention I-II
- Psy 4640-4740—Empirical Investigations in Developmental Psychology I-II
- Psy 4650-4750—Empirical Investigations in Social and Organizational Psychology I-II
- Psy 4660-4760—Empirical Investigations in Health Psychology I-II

Courses with grades of D may not be used to meet the major requirements.

Minor Requirements

Psy 1051—Introduction to Psychology
Psy 2001—Research Methods in Psychology
Stat 1601—Introduction to Statistics
or Stat 2601—Statistical Methods
IS 4101—Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services

At least one course from:

- Psy 3101—Learning Theory and Behavior Modification
- Psy 3111—Sensation and Perception
- Psy 3112—Cognition
- Psy 3201—Comparative Psychology
- Psy 3211—Biological Psychology

10 additional credits in Psy 3xxx or 4xxx courses
At least 6 credits of which must be earned in courses other than:

- Psy 4101—Helping Relationships
- Psy 4896—Field Experiences In Psychology

Courses with grades of D may not be used to meet the minor requirements.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Psy 1051f. Introduction to Psychology. (SS; 4 cr)
An introduction to the science of mind and behavior. Topics include history of psychology, research methods, biological bases for behavior, life span development, sensation and perception, learning, cognitive and social processes, personality, psychopathology, and applications of psychology. Includes laboratory/discussion sessions.
Psy 1061f,s. Introduction to the Development of the Child and Adolescent. (SS; 4 cr; prereq 1051 or #) 
Theory, data, and research approaches in development from birth through adolescence. Prenatal and physical development as well as perceptual, cognitive, language, personality, and social development. Multicultural/global perspective. Designed for students aiming for teacher certification, who receive priority in registration. Does not count for elective credit for the 16-credit psychology component of the LAHS major or for the psychology major or minor. Does count toward the 8-credit “other” category for the LAHS major. A more in-depth alternative to this course is Psy 3401 and Psy 3402. Students double majoring in education and psychology should consider the Laboratory/discussion sessions.

Psy 1071f. Human Sexuality. (SS; 4 cr) 
Survey of aspects of human sexuality, including intimacy and communication; male and female anatomy, physiology, and response; development of identity, sex role, and gender orientation; varieties of sexual expression; pregnancy and childbirth; contraception and disease prevention; sexual coercion and abuse; sexual dysfunctions and their treatment.

Psy 1081s. Drugs and Human Behavior. (SS; 2 cr) 
Survey of psychoactive drugs, their effects on mind and behavior, and prevention and treatment of drug abuse.

Psy 2001f,s. Research Methods in Psychology. (SS; 4 cr; prereq 1051, Stat 1601 or 2601 or #) 
Design, analysis, and interpretation of research in psychology. Instruction on different research techniques and ethics in research. Students conduct, analyze, and evaluate empirical research and gain experience preparing APA-style research reports. Includes laboratory/discussion sessions.

Psy 3051s. The Psychology of Women and Gender. (HDiv; 4 cr; prereq 1051 or #) 
Exploration of the interactive biological, psychological, and socio-cultural processes that shape the lives of women and the experience of gender. Topics include: the psychobiology of sex; the social construction of sex and gender; socialization and development; media representations; identity and sexuality; language and communication; motivation and personality; relationships; work and family lives; mental and physical health; mid- and later life development; victimization; therapy; intersections of race, class, and gender; and feminist approaches to teaching, learning, and knowing.

Psy 3101f. Learning Theory and Behavior Modification. (SS; 4 cr; prereq 2001 or #) 
Major theories of learning and their importance for understanding human and nonhuman behavior. Classical and operant conditioning, generalization, discrimination, stimulus control, animal cognition. Behavior modification theories and techniques and their application to clinical populations. Lab projects demonstrate learning and behavior modification theories, concepts, and techniques and illustrate research methods and theory testing. Includes lab.

Psy 3111f. Sensation and Perception. (SS; 4 cr; prereq 2001 or #) 
Empirical study of sensory processes and perceptual organization with emphasis on vision and audition. Anatomy and physiology of sense organs, psychophysics, signal detection theory, attention, speech perception, and perceptual-motor coordination. Includes lab.

Psy 3112s. Cognition. (SS; 4 cr; prereq 2001 or #) 
Empirical study of memory, language behaviors, representation of knowledge, judgment, decision making, problem solving, and creative thinking. Includes lab.

Psy 3201s. Comparative Psychology. (Sci-L; 4 cr; prereq [1051, 2001] or Biol 2111) 
Phylogenetic comparison of animal behavior emphasizing mechanisms of adaptation. Mechanisms of speciation, behavior genetics, evolution and ontogeny of the central nervous system, ethological determinants of behavior and learning. Includes lab.

Psy 3211f. Biological Psychology. (Sci-L; 5 cr; prereq [1051 and 2001] or Biol 1101) 
Brain organization and function; an emphasis on an understanding of the neural processes that underlie human and nonhuman behavior. Incorporates information from psychology, neuroscience, endocrinology, physiology, chemistry, neurology, and zoology to investigate the physiological basis of behavior. Topics include sensory processes, drugs and addiction, biological rhythms, sexual differentiation, reproduction, methods in neuroscience, neuropsychological disorders, and clinical assessment. Lab projects focus on neuroanatomical organization and function of the brain. (4 hrs lect, 1 hr lab)

Psy 3221s. Behavioral Biology of Women. (Sci; 2 cr; prereq 3211 or Biol 2111 or #; offered when feasible) 
Exploration of proximate and ultimate influences on female behavior in human and nonhuman species. Sexual differentiation, gender differences in cognition, biological basis of sexual orientation, female sexual selection, and dominance.

Psy 3302f,s. Personality. (SS; 4 cr; prereq 1051, Stat 1601 or 2601 or #) 
Nature of personality constructs and theories. Conscious vs. nonconscious processes; emotion and motivation; nature and measurement of personal traits; their dimensional structure, stability, development, and heritability.

Psy 3313s. Psychopathology. (SS; 4 cr; prereq 3302, Stat 1601 or Stat 2601) 
Psychological disorders and their treatment, including anxiety, personality, affective, schizophrenic, and other recognized disorders of children and adults.

Psy 3401f. Developmental Psychology I: Child Psychology. (SS; 4 cr; prereq 1051 or #) 
Theory, data, and research in development from conception to adolescence. Prenatal and physical development as well as perceptual, cognitive, personality, and social development. Language acquisition and Piaget’s theory of cognitive development.

Psy 3402s. Developmental Psychology II: Adolescence. (SS; 2 cr; prereq 1051, [3401 or 1061] or #) 
Theory, data, and research in adolescent development with emphasis on physical, cognitive, and social development.
Psy 3403f. Developmental Psychology III: Adulthood, Aging, and Death. (E/CR; 4 cr; prereq 1051 or #) An overview of current concepts, theories, and methods in the study of adult development and aging. Provides students with an applied-learning experience through a service learning component. Theoretical and methodological content is integrated with service learning, involving approximately one hour per week of work outside the classroom. Focus is on individual biological and social-psychological development, but also incorporates historical, sociological, and anthropological perspectives where appropriate.

Psy 3501f. Social Psychology. (SS; 4 cr; prereq 1051 or Soc 1101 or #) Theories and research in the study of interpersonal behavior. Topics include aggression, prejudice, altruism, persuasion, group dynamics, and social influence.

Psy 3511s. Applied Social Psychology. (SS; 2 cr; prereq 3501 or Psy/Mgmt 3701 or #; not offered 2005-2006) Application of theories and techniques from social psychology to behavioral sciences to social, legal, and consumer issues. Emphasis on both understanding and bringing about change on these issues.

Psy 3512s. Group Dynamics. (SS; 2 cr; prereq 3501 or Psy/Mgmt 3701 or #; not offered 2005-06) Same as Mgmt 3512. Uses the behavioral sciences to take an applied and theoretical perspective on group dynamics. Topics include teams, teams versus groups, group decision making, group performance, group structure, and group socialization.

Psy 3513s. Negotiation. (SS; 4 cr; prereq 3501 or Mgmt 3221 or Psy/Mgmt 3701; not offered 2005-07) Same as Mgmt 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

Psy 3521s. Health Psychology. (SS; 4 cr; prereq 1051) Health implications of interactions among behavioral, environmental, and physiological states. Physiological bases of behavior and health; stress and coping; behavioral antecedents of disease; psychoneuroimmunology; disease prevention and health promotion.

Psy 3541f. Cultural and Cross-Cultural Psychology. (HDIV; 2 cr; prereq 3001 and [3302 or 3313 or 3401 or 3402 or 3403 or 3501 or 3521] or #) Theoretical and methodological approaches to the study of human psychological diversity and cultural differences in psychological functioning. Topics may include: the cultural psychology of the self, emotions, cognition, and morality; cross-cultural human development; culture and mental health; the history of cultural/cross-cultural psychology; the indigenous psychology movement; and community-based approaches to race, ethnicity, and psychology.

Psy 3601f. Quantitative Methods in Psychology. (M/SP; 4 cr; prereq 1051, [Stat 1601 or 2601] or #; not offered 2006-07) Intermediate course in research design and data analysis. Analysis of variance, regression and correlation, non-parametric methods, use of microcomputer statistical packages.

Psy 3611s. History and Philosophy of Psychology. (Hist; 2 cr; prereq 1051) Historical roots and comparative features of major theoretical systems in psychology, including their viewpoints on scientific methodology, research interests, and techniques. Component variables, hypotheses, and laws of structural, functional, behavioralistic, Gestalt, psychoanalytic, and existential movements and their modern syntheses.

Psy 3701. Organizational Behavior. (SS; 4 cr; prereq jr or sr) Same as Mgmt 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

Psy 4101f.s. Helping Relationships. (SS; 4 cr; prereq 3302) Approaches to counseling and psychotherapy. Theories of helping relationships. Acquisition of helping skills, including attending behavior, reflection of feeling, paraphrasing, confrontation, and summarization. Major humanistic, cognitive, and behavioral approaches. Didactic instruction, observation of counseling and psychotherapeutic techniques, and practical experiences.

Psy 4610f. Empirical Investigations in Cognitive Psychology I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, [3111 or 3112], #; no cr for 4610 until 4710 completed) Empirical investigations by students in any area of cognitive psychology, including sensation and perception, as well as related areas. Includes lab. First half of a series; students must enroll in Psy 4710 to complete the project.

Psy 4620f. Empirical Investigations in Biological and Comparative Psychology I. (Sci; 2 cr; repeatable to 4 cr; prereq 2001, 3211 or 3201, #; no cr for 4620 until 4720 completed) Empirical investigations by students in any area covered by biological or comparative psychology, as well as related areas. Includes lab. First half of a series; students must enroll in Psy 4720 to complete the project.

Psy 4630f. Empirical Investigations in Personality, Psychopathology, and Psychological Intervention I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, 3302, #; no cr for 4630 until 4730 completed) Empirical investigations in human emotion, motivation, individual differences, psychopathology, and psychological intervention. Includes lab. First half of a series; students must enroll in Psy 4730 to complete the project.

Psy 4640f. Empirical Investigations in Developmental Psychology I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, [3401 or 3402 or 3403], #; no cr for 4640 until 4740 completed) Individual reading and empirical research on any topic. Objective is greater depth than is possible in Psy 3401, 3402, 3403 and demonstration of research competency. Includes lab. First half of a series; students must enroll in Psy 4740 to complete the project.

Psy 4650f. Empirical Investigations in Social and Organizational Psychology I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, [3501 or 3701], #; no cr for 4650 until 4750 completed) Seminar instruction on topics of student and staff interests. Students complete an empirical project and paper. Includes lab. First half of a series; students must enroll in Psy 4750 to complete the project.
Ps 4660f,s. Empirical Investigations in Health Psychology I. (SS; 2 cr; repeatable to 4 cr; prereq 2001, [3501 or 3521], #; no cr for 4660 until 4760 completed)
Seminar instruction on topics of student and staff interests. Students complete an empirical project and paper. Includes lab. First half of a series; students must enroll in Psy 4760 to complete the project.

Ps 4710f,s. Empirical Investigations in Cognitive Psychology II. (SS; 2 cr; repeatable to 4 cr; prereq 4610, #)
Continuation of Psy 4610. Psy 4710 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psy 4610, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psy 4610 and 4710 may be taken concurrently. It is recommended that students begin the series in the fall term.

Ps 4720f,s. Empirical Investigations in Biological and Comparative Psychology II. (Sci; 2 cr; repeatable to 4 cr; prereq 4620, #)
Continuation of Ps 4620. Psy 4720 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psy 4620, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psy 4620 and 4720 may be taken concurrently. It is recommended that students begin the series in the fall term.

Ps 4730f,s. Empirical Investigations in Personality, Psychopathology, and Psychological Intervention II. (SS; 2 cr; repeatable to 4 cr; prereq 4630, #)
Continuation of Ps 4630. Psy 4730 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psy 4630, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psy 4630 and 4730 may be taken concurrently. It is recommended that students begin the series in the fall term.

Ps 4740f,s. Empirical Investigations in Developmental Psychology II. (SS; 2 cr; repeatable to 4 cr; prereq 4640, #)
Continuation of Ps 4640. Psy 4740 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psy 4640, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psy 4640 and 4740 may be taken concurrently. It is recommended that students begin the series in the fall term.

Ps 4750f,s. Empirical Investigations in Social and Organizational Psychology II. (SS; 2 cr; repeatable to 4 cr; prereq 4650, #)
Continuation of Ps 4650. Psy 4750 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psy 4650, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psy 4650 and 4750 may be taken concurrently. It is recommended that students begin the series in the fall term.

Ps 4760f,s. Empirical Investigations in Health Psychology II. (SS; 2 cr; repeatable to 4 cr; prereq 4660, #)
Continuation of Ps 4660. Psy 4760 is required for completion of the project. Students collect and analyze data, as appropriate to the project developed in Psy 4660, and complete an APA-style research report. Includes lab and paper. Most projects are completed over two semesters, although with instructor permission Psy 4660 and 4760 may be taken concurrently. It is recommended that students begin the series in the fall term.

Ps 4786f,s. Field Experiences in Psychology. (SS [if taken for 2 or more cr]; 1-4 cr; repeatable, only 4 cr may be applied to the BA or the Psy major; prereq #, which normally requires 4101 for work in psychiatric settings, 3302, 3401 or 3402 for work in schools; S-N only)
Individually arranged, supervised observation of and assistance with activities of professional psychologists in schools, clinics, hospitals, and other field settings.

Ps 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)
Individualized instruction for advanced undergraduates. Content and manner of instruction depends on interests of students and faculty. Individual research and reading projects in selected areas supervised by faculty members as well as seminars concerned with in-depth exploration of topics of current interest; topics to be announced.

### Russian (Russ)

This discipline is in the Division of the Humanities. The purpose of the Russian curriculum is to introduce students to the language and culture of the Russian people.

The program is designed to promote a global perspective by encouraging students to examine another culture primarily, but not exclusively, through its language. The introductory course satisfies the foreign language requirement.

**Objectives** — Students develop at an introductory level a number of skills in Russian: speaking, reading, listening, and writing. They gain an awareness of the structure of languages and an elementary facility with the Russian idiom.

**Study Abroad**

In light of today’s increasingly interdependent world, the UMM Russian faculty endorses study abroad as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one’s world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.
Course Descriptions

**Russ 1001f. Beginning Russian I.** (FL; 4 cr; offered when feasible)
Introduction to Russian as it is spoken and written presently. The course acquaints students with the basic sounds and vocabulary of Russian and enables them to understand, read, and write the language and to communicate in Russian about everyday situations. It makes them aware of the relationship between culture and language.

**Russ 1002s. Beginning Russian II.** (FL; 4 cr; prereq 1001 or placement or #: offered when feasible)
Continuation of 1001.

**Russ 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study.** (1-5 cr; repeatable to 10 cr; prereq approved directed study form)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Secondary Education

(See Education, Secondary.)

Social Science Major

This interdisciplinary major is in the Division of the Social Sciences.

**Objectives** — Students will understand how each social science discipline structures and advances knowledge, raises and answers analytical questions, and deals with competing theories and the changing nature of the field. Students develop an area of focus in a single discipline or an interdisciplinary social science area within the major.

**Advising and Evaluation** — Students work closely with their advisers to plan a program that satisfies the required competencies in a chosen area of focus and in the social science disciplines. Program plans must be on file with the Social Sciences Division Office by the end of a student’s junior year.

**Program** — While the programs of individual students may vary, based upon arrangements approved by the divisional committee for the social science major, the minimum competencies required for each discipline normally may be achieved by completion of the following courses:

- Anth 1111 — Introductory Cultural Anthropology
- Econ 1112 — Principles of Macroeconomics
- Econ 1951 — Seminar for Social Science Majors
- Geog 2001 — Problems in Geography
- Hist 1301 — Introduction to United States History
- Pol 1201 — American Government and Politics
- Psy 1051 — Introduction to Psychology
- Soc 1101 — Introductory Sociology
- Stat 1601 — Introduction to Statistics or equivalent proficiency in statistics approved by the divisional committee for the social science major

Courses with grades of D may not be used to meet the major requirements.

The area of focus most often is demonstrated by completing the minor in that discipline. Area of focus plans should be on file with the Social Sciences Division Office by the end of a student’s junior year. Individual plans can be devised, but the total number of introductory and upper-level credits will be similar to that found among minors in the Social Sciences:

**Anthropology** — in addition to Anth 1111, the area of focus includes Anth 2101, Anth 3411, and 12 additional credits in Anth or Soc at 2xxx or above.

**Economics** — in addition to Econ 1112 and 1951, the area of focus includes Econ 1111, 3201, 3202, Math 1101, and 6 additional credits in Econ at 3xxx or above. No more than 4 credits from each of Econ x993 or Econ 490x can be applied to the area of focus.

**History** — in addition to Hist 1301, the area of focus includes Hist 1101 or 1102 and four additional courses of which at least three are at 2xxx or higher. There should be evidence of work in at least two different geographic areas.

**Management** — in addition to Econ 1112, the area of focus includes Econ 1111, Mgmt 2101, 2102, 10 additional credits in Mgmt courses at 3xxx or above. No more than 4 credits from each of Econ x993 or Mgmt x993 can be applied to the area of focus.

**Political Science** — in addition to Pol 1201, the area of focus includes 16 additional credits in Pol, at least 8 of which need to be at 3xxx or higher.

**Psychology** — in addition to Psy 1051, the area of focus includes Psy 2001 and 14 additional credits in Psy at 3xxx or higher, 4 credits of which need to be from Psy 3101, 3111, 3112, 3201, or 3211. Students not enrolled in the secondary education program must also complete IS 4101.

**Sociology** — in addition to Soc 1101, the area of focus includes Soc 3101, either Soc 3401 or 3402, and 12 more credits in Soc. Soc 4991 is highly recommended.

**Women’s Studies** — the area of focus requires WoSt 1101 and a minimum of 12 credits, selected from at least three disciplines, from the courses listed under the Women’s Studies major.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.
**Course Descriptions**

**Anth 1111f,s. Introductory Cultural Anthropology.** (SS; 4 cr)

Varieties and range of human behavior as revealed through the comparative study of cultures throughout the world. Concepts developed by anthropologists to explain both the unity and diversity of humankind.

**Econ 1112f,s. Principles of Macroeconomics.** (SS; 4 cr; prereq high school algebra or #)

Introduction to basic economic problems, concepts, and theoretical models. U.S. economic institutions and the economic organization of society. The role of markets in the production and distribution of societal resources. Measurement of economic performance; national income, inflation and unemployment; competing macroeconomic theories and stabilization policies.

**Econ 1951f,s. Seminar for Social Science Majors.** (1 cr; prereq 1112; no cr for students who are concurrently enrolled in or have received cr for 3xxx Econ courses; S-N only)

Familiarization with various journals, periodicals, and sources of statistical information that deal with current developments in economics.

**Geog 2001s. Problems in Geography.** (Envt; 4 cr; offered when feasible)

Basic concepts and questions in the field of geography. The terminology and approaches of geographical inquiry and analysis, with emphasis on the spatial patterns and arrangements of human interaction with the landscape and the production of geographical knowledge.

**Hist 1301f. Introduction to U.S. History.** (Hist; 4 cr)

Methods, themes, and problems in the study of the history of the United States.

**Pol 1201f,s. American Government and Politics.** (E/CR; 4 cr)

Analysis of principles, organization, procedures, and powers of government in the United States. The federal system, national constitution, civil and political rights, party system; nature, structure, powers, and procedures of legislative, executive, and judicial departments of the national government.

**Psy 1051f. Introduction to Psychology.** (SS; 4 cr)

An introduction to the science of mind and behavior. Topics include history of psychology, research methods, biological bases for behavior, life span development, sensation and perception, learning, cognitive and social processes, personality, psychopathology, and applications of psychology. Includes laboratory/discussion sessions.

**Soc 1101f,s. Introductory Sociology.** (SS; 4 cr)

Basic concepts, theories, and methods of sociology; survey of some of the institutional areas in which sociologists specialize.

**Stat 1601f,s. Introduction to Statistics.** (M/SR; 4 cr; prereq high school higher algebra)

Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

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**Sociology (Soc)**

This discipline is in the Division of the Social Sciences.

**Objectives** — The sociology curriculum (with support from anthropology courses) is designed to acquaint students with the concerns, theories, and methods of the science that deals with groups, culture, and interpersonal relations of human beings. In addition to an introduction to sociology as a science, an effort is made to relate human values to the theories, methods, and data of sociology. Courses are designed to meet the needs of liberal arts students and those preparing for graduate school.

**Major Requirements**

A minimum of 36 credits in sociology and anthropology, 28 of which must be in 2xxx, 3xxx, and 4xxx courses and must include:

- Soc 1101 — Introductory Sociology
- Soc 3101 — Research Methodology I
- Soc 4991 — Independent Project Seminar

One course from:

- Soc 3401 — Classical Sociological Theory
- Soc 3402 — Contemporary Sociological Theory
- Stat 1601 — Introduction to Statistics

Students develop a coherent program of study in consultation with their major adviser generally no later than the spring semester of their sophomore year. Up to 4 credits of coursework with a grade of D may be used to meet the major requirements if offset by an equivalent number of credits of A or B.

**Minor Requirements**

A minimum of 6 courses (24 credits), including:

- Soc 1101 — Introductory Sociology
- Soc 3101 — Research Methodology I
- Either Soc 3401 — Classical Sociological Theory or Soc 3402 — Contemporary Sociological Theory
- Three electives
- Soc 4991 — Independent Project Seminar

**Teacher Preparation Requirements**

Students seeking teaching licensure in social studies 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.
Course Descriptions

Note: Soc 2301, 2302, 2451, 2452, 3203, and 3204 may also be taken for credit in Anthropology.

Soc 1101s. Introductory Sociology. (SS; 4 cr)
Basic concepts, theories, and methods of sociology; survey of some of the institutional areas in which sociologists specialize.

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

Soc 2301s. Social Change and Development in Latin America. (IP; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2301. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Soc 2302f. Women in Latin America. (IP; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2302. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women, etc.

Soc 2451f. Contemporary Native Americans. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; not offered 2005-06)
Same as Anth 2451. The cultures, problems, and resurgence of Native Americans in the 20th and 21st centuries. Government policies; education, religion, self-determination, family, gaming, etc.

Soc 2452f. Native American Women. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Soc 3101f. Research Methodology I. (4 cr; prereq 1101)
Introduction to research procedures used in sociology, including sociological statistics. Overview of both quantitative and qualitative techniques in context of professional sociological research and student research design. Development of research design. Questions of validity and reliability examined in the context of professional sociological research and student research design.

Soc 3102s. Research Methodology II. (4 cr; prereq 3101)
Practical issues in sociological research; quantitative research project design, execution, and analysis, reporting and presentation; SPSS data analysis.

Soc 3111s. Sociology of Modernization. (IP; 4 cr; prereq 1101 or Anth 1111 or #)
Process of modernization in non-Western societies. Social, economic, and political impact of modernization from different theoretical perspectives. Assessment of those theoretical perspectives as a means to understand dynamics of change in Third World countries.

Soc 3121f. Sociology of Gender. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #)
An introduction to the sociological study of gender. Focus on gender difference and gender inequality. Analysis of the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today’s world. Theoretical overview and an examination of how gender affects everyday experiences.

Soc 3131f. World Population. (Envt; 4 cr; prereq 1101 or #)
Population theory and demographic method. Dynamics of fertility and mortality as the basis of population forecasting and its policy implications. Emphasis on the tie between Third World demographic trends and population issues in the rest of the world.

Soc 3141f. Sociology of Deviance. (E/CR; 4 cr; prereq 4 cr in Soc or #)
An introduction to the sociological study of deviance. Explores the social reality of deviance within contemporary society and examines the social construction of deviant categories. Focuses on images of deviance as social constructs, rather than as intrinsic elements of human behavior. Investigates the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also examines of the sociocultural definitions of morality and behavior.

Soc 3201s. Critical Perspectives in Rural Sociology. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; offered when feasible)
Overview of the field of rural sociology. Covers demography, community, environment and natural resources, agriculture, and international development. Considerations of theoretical and methodological issues related to the disciplinary cornerstones of social organization and social change in rural areas.

Soc 3203s. Indigenous Peoples of the World: A Cultural Perspective. (IP; 4 cr; prereq 1101 or Anth 1111; not offered 2005-06)
Same as Anth 3203. Examination of the cultures of indigenous peoples of the Americas, Asia, Africa, and Oceania. Particular attention is paid to processes of assimilation and acculturation, as well as contemporary efforts in identity formation.

Soc 3204s. Culture, Food, and Agriculture. (Envt; 4 cr; prereq 1101 or Anth 1111 or #; not offered 2005-06)
Same as Anth 3204. Examines the globalization of food systems utilizing the political ecology of food to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.
**Divisions & Courses**

**Spanish (Span)**

This discipline is in the Division of the Humanities. It promotes a global perspective by encouraging students to take a close look at another culture and in this way become aware of both the diversity and similarity among all people.

**Objectives** — The Spanish curriculum offers coursework in Hispanic culture, language, and literature. The courses are designed to help students develop critical insight into the philosophy and values of another culture, fluency in a second language, and sensitivity toward literature that reflects the experience of the Spanish-speaking world. The curriculum accommodates liberal arts students interested in a cross-cultural perspective, language study, secondary school teaching, or preparation for graduate study in the field.

**Major Requirements**

- **Span 3001** — Intermediate Spanish I
- **Span 3002** — Intermediate Spanish II or equivalent
- **Span 3001** — Spanish Composition and Conversation I
- **Span 3002** — Spanish Composition and Conversation II
- **Span 3101** — Introduction to Hispanic Literature
- **Span 3211** — Literature and Culture of Latin America
- **Span 3212** — Literature and Culture of Spain

Two additional courses at the 3xxx level:
- **Span 4001** — Research Symposium

A foreign study experience and regular use of the language laboratory are strongly recommended to maintain language skills

Latin American Area Studies courses are also recommended

Required courses may not be taken S-N unless offered S-N only. Courses with grades of D may not be used to meet the major requirements.

Students majoring in Spanish are encouraged to take at least one year of instruction in another foreign language.

**Minor Requirements**

- **Span 3001** — Intermediate Spanish I
- **Span 3002** — Intermediate Spanish II or equivalent
- **Span 3001** — Spanish Composition and Conversation I
- **Span 3002** — Spanish Composition and Conversation II
- **Span 3101** — Introduction to Hispanic Literature

Three additional courses at the 32xx and/or 36xx level:

A foreign study experience and regular use of the language laboratory are recommended to maintain language skills.

Latin American Area Studies courses are also recommended

Required courses may not be taken S-N unless offered S-N only. Courses with grades of D may not be used to meet the minor requirements.

**Teacher Preparation Requirements**

Students seeking teaching licensure in Spanish K-12 should refer to the Education, Secondary (SeEd) section of this catalog.

**Required Proficiency/Placement Examination** — Students who plan to complete courses in the same language that they studied in high school must take the proficiency/placement examination and abide by the placement recommendation. If, after an initial exposure to the recommended course, the placement seems inappropriate, students may follow the recommendation of their language instructor as to the proper entry course.
Students not Majoring or Minoring in Spanish

For an in-depth cultural emphasis, students should complete:

- Span 1001 — Beginning Spanish I
- Span 1002 — Beginning Spanish II or equivalent
- Span 2001 — Intermediate Spanish I
- Span 2002 — Intermediate Spanish II

Two additional courses chosen from LAAS and/or HUM courses offered by Spanish discipline faculty. A foreign study experience is also recommended.

For an in-depth language emphasis, students should complete:

- Span 1001 — Beginning Spanish I
- Span 1002 — Beginning Spanish II or equivalent
- Span 2001 — Intermediate Spanish I
- Span 2002 — Intermediate Spanish II
- Span 3001 — Spanish Composition and Conversation I
- Span 3002 — Spanish Composition and Conversation II

A foreign study experience, special projects in language, and regular use of the language lab are recommended to maintain language skills.

Study Abroad

In light of today’s increasingly interdependent world, the UMM Spanish faculty endorses study abroad, in combination with a Spanish major or minor, as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one’s world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

Course Descriptions

Note: Students may not receive credit twice for a course that is offered in both English and Spanish.

**Span 1001f. Beginning Spanish I** *(FL; 4 cr)*

Development of basic skills of Spanish (reading, speaking, writing, listening) and an introduction to the cultural contexts of Latin America and Spain.

**Span 1002s. Beginning Spanish II** *(FL; 4 cr; prereq 1001 or placement or #)*

Continuation of the sequence beginning with 1001.

**Span 2001f. Intermediate Spanish I** *(IP; 4 cr; prereq 1002 or placement or #)*

Review and building of the four basic skills in Spanish with emphasis on critical reading skills and writing for communication.

**Span 2002s. Intermediate Spanish II** *(IP; 4 cr; prereq 2001 or placement or #)*

Continuation of the sequence beginning with 2001.

**Associated Languages: Introduction to a number of languages and cultures of the Iberian Peninsula and Latin America, such as Portuguese and Nahuatl.**

- **Span 2101. Associated Languages: Beginning Nahuatl I.** *(FL; 4 cr)*
  
An introduction to the Aztec language, Nahuatl. Emphasis is on written language.

- **Span 2102. Associated Languages: Beginning Nahuatl II.** *(FL; 4 cr; prereq 2101)*
  
Continuation of 2101.

- **Span 2121. Associated Languages: Intensive Portuguese.** *(IP; 4 cr; prereq 2002 or Fren 2002 or #)*
  
Intensive, accelerated study of the basic skills of Brazilian Portuguese (reading, writing, listening, and speaking) with emphasis on oral competency.

- **Span 3001f. Spanish Composition and Conversation I.** *(IP; 4 cr; prereq 2002 or #)*
  
Further review of the four skills in Spanish, with emphasis on: 1) development of greater competence and confidence in conversational Spanish; 2) greater precision and sophistication in written communication; and 3) analytical proficiency in reading selections from diverse literary and cultural contexts.

- **Span 3002s. Spanish Composition and Conversation II.** *(IP; 4 cr; prereq 3001)*
  
Continuation of the sequence beginning with 3001.

- **Span 3101s. Introduction to Hispanic Literature.** *(Hum; 4 cr, prereq 3001; prereq or coreq 3002 for majors)*
  
Study of a variety of literary genres representing the literature of Spain and Latin America; rudiments of literary analysis and interpretation. Students should demonstrate the ability to read and comprehend the literary works studied, analyze works critically while developing a sensitivity toward certain cultural aspects and literary nuances expressed therein; participate in and comprehend sustained class discussion with respect to certain topics or themes; write with accuracy in Spanish and show some degree of analytical proficiency at the short paper level.

- **Span 3211. Literature and Culture of Latin America.** *(Hum; 4 cr; prereq 3002, 3101)*
  
Study of important exemplary works of Latin American literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

- **Span 3212. Literature and Culture of Spain.** *(Hum; 4 cr; prereq 3002, 3101)*
  
Study of important exemplary works of Spanish (peninsular) literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.
Division Structure and Course Descriptions

Seminar: Courses numbered 36xx are seminars focused on specific areas of research in Latin American and Peninsular literature and culture. They are designed to complement the broad coverage of these areas in the two literature and culture courses by allowing students to choose courses in their areas of interest and study these areas more thoroughly.

Span 3601. Seminar: Reality Born on Paper in Colonial Latin America. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Analysis of the multiple roles of writing during the conquest, the colonial period, and the era of independence and nation-building, as well as its vital importance in the shaping of Latin American "identity" and in the perception of the people and geography of the region.

Span 3620. Seminar: Contemporary (Re-)Visions of Colonial Latin America. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of the re-reading and re-writing of the Conquest and Colonial periods in Latin America, focusing on how these periods are approached, or fictionally reversed, by contemporary authors. Readings include narrative, poetry, and theater written during the 20th century, but based on or inspired by colonial texts.

Span 3621. Seminar: Confessions and Letters in Latin American Fiction. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of confessions and letters in Latin American fiction. Fiction is seen as a combination of texts within other texts. The combination becomes part of the fictional game which imitates and enhances reality.

Span 3622. Seminar: Exile and Emigration in Latin American Fiction. (IP; 4 cr; prereq 3002, 3101; offered when feasible)
Study of contemporary Latin American literary texts where characters face forms of exile, abandonment, and displacement as a result of emigration to Europe and the United States.

Span 3623. Seminar: Ecology and Nature in Latin American Literature. (Envt; 4 cr; prereq 3002, 3101; offered when feasible)
Study of Latin American texts where authors create characters that read or misread Nature and its preservation or extinction. How globalization is making this issue more relevant in the Latin American context.

Span 3651. Seminar: Miguel de Cervantes Saavedra’s El ingenioso hidalgo Don Quijote de la Mancha. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of Miguel de Cervantes Saavedra’s novel El ingenioso hidalgo Don Quijote de la Mancha in light of its sociohistorical context.

Span 3652. Seminar: Literary Minorities in Early Modern Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of the representative literary works written by or about Spanish Jewish and Muslim minorities from the middle ages to the 17th century in light of their respective sociohistorical contexts.

Span 3653. Seminar: María de Zayas: Literary Violence in Golden Age Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of the major works of 17th-century writer María de Zayas y Sotomayor, The Enchantments of Love (1637) and The Disenchantments of Love (1647), in light of their socio-historical contexts and the political issues surrounding the formation of literary canons.

Span 3654. Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature. (Hum; 4 cr; prereq 3002, 3101)
The theme of sex, love, and marriage in Spanish literature through prose, poetry, and theatre of the Golden Age (XVI-XVII centuries) Spain. Consideration of the gender relations and gender politics reflected in the works and the sociohistorical context in which these works were produced.

Span 3670. Seminar: Origins of the Spanish Character. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Analysis of the Medieval and Golden Age roots of many of the beliefs and attitudes of contemporary Spain. Themes common to Spain, explored in both traditional and modern contexts, may include honor, patriotism, religion, idealism, individuality, satire, love, pride, etc.

Span 3671. Seminar: Reform in Spain: The Saint and the Journalist. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Analyzing, comparing, and contrasting the lives and writings of St. Teresa of Avila (XVI Century) and Mariano José de Larra (XIX Century) as they worked toward a better Spain. Difficulties of religious and cultural reform as well as differences in traditional and enlightenment values are explored.

Span 3672. Seminar: Romanticism and Revolution in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of representative texts (prose and poetry) from the first half of the 19th century in Spain, with emphasis on the expression of the Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservativism.

Span 3673. Seminar: Realism and Reform in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible)
Study of representative texts (novels, stories, and essays) from the second half of the 19th century in Spain, with emphasis on the rise of realism as an exploration of the sociopolitical reality of the era and the need for reform. The focus is on general trends in Western cultures (e.g., industrialization, positivism, secularization).

Span 3674. Seminar: Modernity and Identity in Spain, 1900-1930. (Hum; 4 cr; prereq 3002, 3101)
Study of representative texts (prose and poetry) from the early decades of the 20th century in Spain with particular emphasis on their responses to changes brought by modernity: advancing technology, modern psychology, political experimentation, spiritual exploration, and artistic innovation.

Span 4001. Research Symposium. (Hum; 4 cr; prereq #; A-F only)
A capstone experience for majors, consisting of an introduction to research methods and critical approaches to literature, as well as development of an independent research project and presentation.

Span 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)
Speech Communication (Spch)

This discipline is in the Division of the Humanities. The speech communication curriculum is designed to introduce UMM students to the study of the multidimensional nature of communication, to promote the skills of lifelong learning for producers and consumers of messages, and to develop in students the capabilities for active involvement in a participatory democracy.

Objectives—Students develop a historical and theoretical understanding of the three areas of speech communication: rhetoric, communication studies, and mass media. Students use a variety of assigned theoretical approaches appropriate to these three areas to describe and evaluate assigned or chosen discourse.

Students participate in a variety of oral communication assignments using informative and persuasive speaking techniques effectively.

Major Requirements

Prerequisite/Foundation Course
Spch 2101—Introduction to Theories of Speech Communication

Major Core Courses
Spch 3101—History of Rhetoric From the Classical to Modern Periods
Spch 3301—Media Theory, Criticism, and Problems
Spch 3401—Human Communication Theory
One course from:
Spch 3111—History of Rhetoric in the Contemporary Period
Spch 3211—Public Address
One course from:
Spch 3311—Social Uses of the Media
Spch 3321—Television Broadcasting
One course from:
Spch 3411—Intercultural Communication Theory and Research
Spch 3421—Organizational Communication Theory and Research
One course from:
Spch 4151—Argumentation: Theory and Practice
Spch 4201—Persuasion: Receiver Analysis

Elective
One additional 3xx or 4xx Spch course.

Senior Capstone Experience
Seniors must complete:
Spch 4900—Speech Communication Seminar I
and Spch 4901—Speech Communication Seminar II
Up to 4 credits of coursework with a grade of D may be used to meet the major requirements if offset by an equivalent number of credits of A or B. Required courses may not be taken S-N.

Minor Requirements
Spch 2101—Introduction to Theories of Speech Communication

One course from:
Spch 4151—Argumentation: Theory and Practice
Spch 4201—Persuasion: Receiver Analysis

One course from:
Spch 3101—History of Rhetoric From the Classical to Modern Periods
Spch 3111—History of Rhetoric in the Contemporary Period
Spch 3211—Public Address

One course from:
Spch 3301—Media Theory, Criticism, and Problems
Spch 3311—Social Uses of the Media
Spch 3321—Television Broadcasting

One course from:
Spch 3401—Human Communication Theory
Spch 3411—Intercultural Communication Theory and Research
Spch 3421—Organizational Communication Theory and Research

Up to 4 credits of coursework with a grade of D may be used to meet the major requirements if offset by an equivalent number of credits of A or B. Required courses may not be taken S-N.

Teacher Preparation Requirements
Students seeking teaching licensure in communication arts and literature 5-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions
Spch 1042. Public Speaking and Analysis. (E/CR; 4 cr)
Public address theories, practices, and analysis.

Spch 1052. Introduction to Public Speaking. (E/CR; 2 cr)
Activities, assignments, and exercises related to public address/ public speaking in a variety of speech settings.

Spch 2052. Legal Advocacy: Speaking in Appellate Forensic Situations. (E/CR; 4 cr)
Detailed study of the theory and practice of speaking in legal settings. Students prepare and present appellate argument. The final presentation is before a mock Supreme Court.
Spch 2071. Introduction to the Principles and Practices of Speech Communication. (Hum; 4 cr; prereq #)
Those seeking licensure in communication arts/literature, others in education, and other professionals develop mastery of the principles and practices of public speaking, small group communication, and interpersonal communication.

Spch 2101. Introduction to Theories of Speech Communication. (Hum; 4 cr)
A survey of the field of study that has emerged around the oral communication tradition. Students learn the history, theories, and contexts of communication study that prepare them for upper-division courses.

Spch 3101. History of Rhetoric From the Classical to Modern Periods. (IP; 4 cr; prereq 2101 or #)
Rhetoric from the classical theories of Corax and Tisias, Aristotle, and Cicero to the modern theories of Blair, Campbell, and Whately.

Spch 3111. History of Rhetoric in the Contemporary Period. (Hum; 4 cr; prereq 2101 or #)
Detailed study of the development of contemporary rhetorical theory, with particular emphasis placed on the use of those theories in the development of rhetorical criticism.

Spch 3121. Rhetoric in the Movies: The Classic Genres. (Hum; 4 cr; prereq 2101 or #)
Investigation of the film genres of the Hollywood Studio system era. Students learn how films make meaning with their audiences.

Spch 3211. Public Address. (Hum; 4 cr; prereq 2101 or #)
Approaches to the analysis and evaluation of oral discourse with special emphasis on the role of speech in the creation of human society.

Spch 3251. Free Speech on Trial: Communication Perspectives on Landmark Supreme Court Decisions. (E/CR; 4 cr; prereq 2101 or #)
Analysis and evaluation of Supreme Court opinions establishing the contours of First Amendment protection for freedom of speech. Particular attention is devoted to the nature of “communication” revealed by the decisions studied.

Spch 3301. Media Theory, Criticism, and Problems. (SS; 4 cr; prereq 2101 or #)
Theories, research studies, current trends, and various critical approaches to examine and explain the reflexive relationships between media and society.

Spch 3311. Social Uses of the Media. (E/CR; 4 cr; prereq 2101 or #)
Participation in the planning, production, and performance of television projects designed to serve various publics, such as campus units or the community.

Spch 3321. Principles of Television Broadcasting. (Hum; 4 cr; prereq 2101 or #)
Basic theories and practice: equipment, procedures, and skills associated with writing for and the production of televised broadcasting. Lectures, studio projects, class critiques.

Spch 3331. Mass Media and Society. (SS; 4 cr; prereq 2101 or #)
Examines the historical and on-going development of the relationship of media, culture, and the public. Traces and explores the developments of various communication technologies, their impacts and consequences, and their relationships to notions of “the public.”

Spch 3401f. Human Communication Theory. (SS; 4 cr; prereq 2101 or #)
Detailed study of the theoretical tradition of human communication. Focuses on social scientific and humanities theories used to explain social interaction. Provides general foundation on various traditions of inquiry as well as qualitative and quantitative methods.

Spch 3411. Intercultural Communication Theory and Research. (HDiv; 4 cr; prereq 2101 or #)
Study of intercultural communication from an interpersonal and group perspective.

Spch 3421. Organizational Communication Theory and Research. (SS; 4 cr; prereq 2101 or #)
Study of organizational communication, including small group perspectives.

Spch 3431. Interpersonal Communication Theory and Research. (SS; 4 cr; prereq 2101 or #)
Study of theories and research topics of interpersonal communication in various contexts.

Spch 4151. Argumentation: Theory and Practice. (Hum; 4 cr; prereq 2101 or #)
A study of rhetorical argument design and evaluation. Students analyze and critique arguments, as well as plan and present formal speeches.

Spch 4201. Persuasion: Receiver Analysis. (Hum; 4 cr; prereq 2101 or #)
Investigation of persuasion theory and research from rhetorical and social science perspectives. Students analyze particular instances of persuasive attempts.

Spch 4800. Directed Experience in Teaching Speech Communication. (1-4 cr; repeatable to 8 cr; prereq #; S-N only)
Practicums as facilitators in the introductory-level speech courses; weekly seminar sessions focus on method, planning, and problems in speech communication instruction.

Spch 4900. Speech Communication Seminar I. (1 cr; prereq 2101, 3101, 3301, 3401 or sr status and #; A-F only)
Familiarizes students with the literature of the field, including ethical and social implications of communication studies. Students analyze various articles and similarly published works, synthesize contents, and construct a research proposal for a project to be completed as a senior capstone experience.

Spch 4901. Speech Communication Seminar II. (Hum; 3 cr; prereq 2101, 3101, 3301, 3401, 4900 or sr status in the major and #; A-F only)
Completion of capstone experience for majors. Students conduct a project of original study and present their findings in written and oral form.

Spch 3993f, 4993f. Directed Study. (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

Statistics (Stat)
This discipline is in the Division of Science and Mathematics.
The mission of the discipline is to create and apply methods/techniques for collecting, exploring, analyzing and communicating qualitative/quantitative information and to disseminate this knowledge through teaching, scholarly activity and outreach.
Statistics

Statistics is the science and art of enhancing knowledge in the face of uncertainty by modeling, predictions, and decisions. It is central to solutions of problems in medicine, law, industry, technology, finance, business, public policy, computing, and science in general. The need for statistics applies to almost every area of our lives.

Objectives—The statistics program provides an effective operational knowledge of the theory and methods of statistics and the application of statistical methods in a liberal arts environment. It seeks to enhance students’ critical thinking in making judgments based on data and provides students with the basic knowledge and skills to make contributions to society. Students learn to communicate and collaborate effectively with people in other fields and, in the process, to understand the substance of these fields. The curriculum prepares students to enter graduate school or pursue careers in statistical fields at research institutions and industry.

Major Requirements

Math 1101-1102—Calculus I-II  
Stat 1601—Introduction to Statistics  
or Stat 2601—Statistical Methods  
Math/Stat 2501—Probability and Stochastic Processes  
Stat 2611—Mathematical Statistics  
Stat 3601—Data Analysis  
Stat 4901—Senior Seminar  
8 additional credits in statistics courses:  
Stat 3611—Multivariate Statistical Analysis  
Stat 4601—Biostatistics  
Stat 4611—Statistical Consulting  
Stat 4631—Experimental Design  
Stat 4651—Applied Nonparametric Statistics  
Stat x993—Directed Study in Statistics  
A minimum of 4 credits to be chosen from:  
Math 2101—Calculus III.  
Math 2111—Linear Algebra  
Math 2202—Mathematical Perspectives  
Math 3201—Analysis  
Math 3401—Operations Research  
Math 3501—Applied Deterministic Modeling for Management Science  
Math 3502—Applied Probabilistic Modeling for Management Science  
CSci 1211—Introduction to Problem Solving with Java  
CSci 1301—Problem Solving and Algorithm Development I  
CSci 1302—Problem Solving and Algorithm Development II  
Econ 3501—Introduction to Econometrics  
Pol 3101—Political Science Analysis  
Psy 3601—Quantitative Methods in Psychology  
Soc 3101—Research Methodology I  
Soc 3102—Research Methodology II  
Other courses with faculty approval  
Students planning to pursue graduate work in statistics or biostatistics should complete Math 2101—Calculus III and consider taking Math 2202—Mathematical Perspectives and Math 3211—Analysis for Ph.D. preparation.

Minor Requirements

Stat 1601—Introduction to Statistics  
or Stat 2601—Statistical Methods  
Stat 3601—Data Analysis  
A minimum of 16 additional credits from courses listed in the major requirements section of approved courses, with at least one course with a Stat designator.

Course Descriptions

Stat 1601f,s. Introduction to Statistics. (M/SR; 4 cr; prereq high school higher algebra)  
Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

Stat 2501f. Probability and Stochastic Processes. (M/SR; 4 cr; prereq Math 1101 or #)  

Stat 2601f. Statistical Methods. (M/SR; 4 cr; prereq Math 1101 or Math 1021)  
Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, nonparametric statistics, statistical quality control, use of statistical computer packages.
Stat 2611s. Mathematical Statistics. (M/SR; 4 cr; prereq Math 1101)
Introduction to probability theory. Principles of data reduction; sufficiency principle. Point estimation; methods of finding and evaluating estimators. Hypothesis testing; methods of finding and evaluating tests. Interval estimation; methods of finding and evaluating interval estimators. Linear regression and ANOVA.

Stat 3601f. Data Analysis. (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #)
Nature and objectives of statistical data analysis, exploratory and confirmatory data analysis techniques. Some types of statistical procedures; formulation of models, examination of the adequacy of the models. Some special models; simple regression, correlation analysis, multiple regression analysis, analysis of variance, use of statistical computer packages.

Stat 3611s. Multivariate Statistical Analysis. (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #)

Stat 4601s. Biostatistics. (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #)
Design and analysis of biological studies: biological assays, case-control studies, randomized clinical trials, factorial designs, repeated measures designs, observational studies, and infectious disease data. Analysis of survival data: basic concepts in survival analysis, group comparisons, and Cox regression model. Use of statistical computer packages.

Stat 4611. Statistical Consulting. (M/SR; 4 cr; prereq 3601, 3611; offered when feasible)
Statistical consulting skills needed to deal effectively with clients or project teams, formulate statistical models, explain analyses, use standard statistical computer packages, and write reports in language understandable to non-statisticians.

Stat 4631. Design and Analysis of Experiments. (M/SR; 4 cr; prereq 3601 or #; offered when feasible)
Design and analysis of experimental designs; blocking, randomization, replication, and interaction; complete and incomplete block designs; factorial experiments; crossed and nested effects; repeated measures; confounding effects.

Stat 4651. Applied Nonparametric Statistics. (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #; offered when feasible)
Application of nonparametric statistical methods. Examples use real data, gleaned primarily from results of research published in various journals. Nonparametric inference for single samples, paired samples, and independent samples, correlation and concordance, nonparametric regression, goodness-of-fit tests, and robust estimation.

Stat 4901f. Senior Seminar. (M/SR; 1 cr; prereq sr)
Full-year course. Required for all statistics majors. Students must attend year round and present one of the seminars.

Stat 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; prereq approved directed study form)

**Studio Art (ArtS)**
(See Art, Studio.)

**Teacher Education Programs**
(See Education; Education, Elementary; and Education, Secondary.)

**Theatre Arts (Th)**
This discipline is in the Division of the Humanities. The discipline encompases theatre as an artistic form and as a social and cultural institution. The study of theatre arts enables the individual to develop a creative imagination, an inquiring mind, a sense of social responsibility, professional discipline, a collaborative attitude, artistic standards and judgment, and a respect for the art form.

**Objectives**—The curriculum provides sound academic and practical training in theatre arts for undergraduate liberal arts students, for those wishing to pursue graduate studies in the field, and for those preparing to teach. It is designed to help students develop an appreciation for and ability to produce quality theatre.

**Major Requirements**
Th 1101—The Theatre Experience: An Introduction
Th 1111—Fundamentals of Acting
Th 1301—Fundamentals of Design
Th 2101—Fundamentals of Directing
Th 2301—Stagecraft
Th 3101—World Theatre: History and Literature I
Th 3102—World Theatre: History and Literature II
Th 3201—Advanced Acting

or
Th 3202—Advanced Directing
Th 4901—Senior Project

one course from:
Th 2111—Creative Drama with Children
Th 2201—Voice and Movement
Th 2211—Oral Interpretation
Th 2221—Readers’ Theatre
Th 3001—Theatre Scene Painting Studio
Th 3003—Stage Management
Th 3201—Advanced Acting
Th 3202—Advanced Directing
Th 3301—Stage Lighting
Th 3302—Stage Costuming
Th 3303 — Computer-Assisted Drawing
Th 4301 — Scenic Design
Six major production responsibilities (three of which must be in a faculty-directed production and three of which must be in the junior and senior years)
A portfolio review in the junior year
At least one para-programmatic theatre experience that is arranged through a theatre arts faculty member and may take any number of forms, e.g., an internship with a theatre company, study abroad, or theatre tour to New York or London
Up to 4 credits of coursework with a grade of D may be used to meet the major requirements if offset by an equivalent number of credits of A or B.
Required courses may not be taken S-N unless offered S-N only.

Minor Requirements
Th 1101 — The Theatre Experience: An Introduction
Th 1111 — Fundamentals of Acting
Th 1301 — Fundamentals of Design
Th 2101 — Fundamentals of Directing
Th 2301 — Stagecraft
At least three courses from:
- Th 2111 — Creative Drama with Children
- Th 2201 — Voice and Movement
- Th 2211 — Oral Interpretation
- Th 2221 — Readers’ Theatre
- Th 3001 — Theatre Scene Painting Studio
- Th 3003 — Stage Management
- Th 3101 — World Theatre: History and Literature I
- Th 3102 — World Theatre: History and Literature II
- Th 3201 — Advanced Acting
  or Th 3202 — Advanced Directing
- Th 3301 — Stage Lighting
- Th 3302 — Stage Costuming
- Th 3303 — Computer-Assisted Drawing
- Th 4301 — Scenic Design
Three major production responsibilities (at least one of which must be in a faculty-directed production and at least two to be completed in the junior and senior years)
Up to 4 credits of coursework with a grade of D may be used to meet the minor requirements if offset by an equivalent number of credits of A or B.
Required courses may not be taken S-N unless offered S-N only.

Teacher Preparation Requirements
Students seeking teaching licensure in dance and theatre arts K-12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions
Th 1040. Backstage on Broadway. (1 cr; repeatable to 4 cr; prereq #: S-N only; offered when feasible)
Supervised field trip to New York; attending selected professional theatre productions; backstage tours; discussions with theatre professionals.
Th 1050. London Theatre Tour. (1 cr; repeatable to 4 cr; prereq #: S-N only; offered when feasible)
Supervised field trip to London, England; attending selected professional theatre productions; backstage tours; discussions with theatre professionals.
Th 1060f,s. Production Experience. (1 cr; repeatable to 8 cr; prereq #: S-N only)
Participation in some aspect of theatre production, other than performing (e.g., scenery, props, costumes, lighting).
Th 1070f,s. Performance Experience. (ArtP; 1 cr; repeatable to 8 cr; prereq #: S-N only)
Participation in theatrical production as a performer.
Th 1101f. The Theatre Experience: An Introduction. (FA: 4 cr)
Fundamental examination and practical application of the theory, history, and practice of theatrical performance as a reflection of society. Focus is on the theatre event as a collaborative effort and transitory art form. Practicum required two hours per week, selected from M-Th from 2:00-5:30 p.m. (lect, 2 hrs practicum)
Th 1111s. Fundamentals of Acting. (ArtP; 4 cr; prereq 1101, theatre arts major or minor or #)
Approaches characterization from a physical and psychological viewpoint. Focus is on use of imagination, text analysis, body and voice to develop characters from modern realistic dramatic literature.
Th 1301f. Fundamentals of Design. (ArtP; 4 cr)
Problem-solving approach to elements, principles, and functions of design; their place in the theatre and elsewhere. (3 hrs lect, 2 hrs studio)
Th 2101s. Fundamentals of Directing. (ArtP; 4 cr; prereq 1111, theatre arts major or minor or #)
Introduces the practical components of the director as artist, teacher, and collaborator. Focus is on the craft of directing modern realistic dramatic literature through text analysis, communication of concepts, and stylistic techniques.
Th 2111s. Creative Drama With Children. (ArtP; 4 cr; prereq 1101 or theatre or elem ed major or #: offered when feasible)
Development of classroom skills in the use of dramatic techniques to teach a broad range of subjects to children. Exercises, presentations, and experiential learning techniques are modeled and practiced in class.
Th 2201s. Voice and Movement. (ArtP; 4 cr; prereq 1111, theatre arts major or minor or #)
Explores the use of the voice and the body as means for expression in performance and everyday communication. Focus is on expansion and enhancement of vocal and physical skills through release of tension, posture, vocal exercises, and muscle extension.
Th 2211. Oral Interpretation. (ArtP; 4 cr; offered alternate yrs)
Introduces the study of literature through text analysis and performance. Focus is on the student’s discovery of the aesthetic, communicative, and performative elements of a variety of personal narratives, prose, and poetry.
Division Structure and Course Descriptions

**Th 2221f. Readers’ Theatre.** (ArtP; 4 cr; prereq 2211; offered when feasible)
Explores the theory and practice of adapting literature into group performance. Focus is on text analysis, script development, directing, and performing both dramatic and non-dramatic literary texts.

**Th 2301s. Stagecraft.** (ArtP; 4 cr)
Development of stagecraft from the Greeks to the present. Basic forms of stage scenery and their functions in the theatre. Tools, materials, and techniques employed in creating the visual environment of the stage. (3 hrs lect, 3 hrs practicum)

**Th 3001. Theatre Scene Painting Studio.** (FA; 4 cr; prereq #)
Systematic approach to painting theatrical scenery. Traditional techniques and the tools and paints that have been developed to support those techniques.

**Th 3003. Stage Management.** (ArtP; 4 cr; prereq #)
Introduces the principles of theatrical stage management; explores the stage manager’s functions and duties through all phases of the production process including pre-production, rehearsal, and performance.

**Th 3101f. World Theatre: History and Literature I.** (FA; 4 cr)
Theatrical practice and dramatic literature from origins through late 17th century, tracing the roots leading to, and influences on, early modern European theatre practice and dramatic literature, as well as examining select Asian, African, and/or pre-Columbian American theatrical practice.

**Th 3102s. World Theatre: History and Literature II.** (FA; 4 cr)
Theatrical practice and dramatic literature from the late 17th century to the present, examining select Asian, African, and/or Western Hemispheric theatrical practice, as well as tracing the roots leading to, and influences on, current world theatre practice and dramatic literature.

**Th 3201f. Advanced Acting.** (ArtP; 4 cr; prereq 1101, 1111, 2101; offered alternate yrs)
Advanced acting techniques based in psychological realism and an exploration of select classical and nonrealistic forms. Styles to be examined include ancient Greek, Elizabethan, comedy of manners, absurdism, postmodernism, and musical theatre.

**Th 3202s. Advanced Directing.** (ArtP; 4 cr; prereq 1101, 1111, 2101; offered alternate yrs)
Advanced directing techniques based in psychological realism and an exploration of select classical and nonrealistic forms. Styles to be examined include ancient Greek, Elizabethan, comedy of manners, absurdism, postmodernism, and musical theatre.

**Th 3301s. Stage Lighting.** (ArtP; 4 cr; prereq 1301, 2301; offered alternate yrs)
History and development of lighting for the stage. Theory and concepts of lighting as a visual art and its function in the theatre. Lighting design as a creative process and practical solution of lighting design problems. Lighting equipment and its use.

**Th 3302s. Stage Costuming.** (FA; 4 cr; prereq 1301, 2301; offered alternate yrs)
History and development of stage costume. Theory and concepts of stage costume as a visual art and its function in the theatre. Costume design as a creative process. Practical demonstrations of knowledge of design, history, and functions of stage costume.

**Th 3303f. Computer-Assisted Drawing.** (ArtP; 4 cr)
Theory and concepts of and practice in using a computer as a drawing and drafting tool.

**Th 4301s. Scenic Design.** (FA; 4 cr; prereq 1301, 2301; offered alternate yrs)
Designing scenery as an expressive environment for the theatre. Elements and functions of design and principles of composition. Problems in coordination and execution of design in the interpretation of dramatic literature using a variety of staging techniques. Study of various styles of historical and contemporary stage productions and theatre architecture through the writings and designs of such artists and theorists as Appia, Craig, Meyerhold, Jones, and Svoboda.

**Th 4901f,s. Senior Project.** (2-4 cr; prereq theatre arts major, #)
Culminating activity to demonstrate the student’s competence in some area of theatre arts. Projects may be completed independently (e.g., a research paper, a solo acting performance) or as part of a group effort. Acting, scenery, lighting, costume design, playwriting, and theatre history are some areas in which the project may be undertaken.

**Th 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study.** (1-5 cr; repeatable to 10 cr; prereq approved directed study form)

**Continuing Education Courses**

**Th 3451. CE: Shakespeare’s England.** (Hum; 4 cr; offered summers as feasible)
Same as Engl 3451. A study-abroad course in London and Stratford that concentrates on Shakespeare’s plays in performance. Exploration of the relationship between plays as written scripts and the decisions directors and actors make when they stage productions.

**Wellness and Sport Science (WSS)**

This discipline is in the Division of Education.

**Objectives**—This curriculum helps students develop and maintain a healthy lifestyle and prepares them for a lifetime of service as sports management and coaching professionals.

The statement, “Varsity coaching requirements completed,” is added to the transcript of students who complete:

**Coaching**

WSS 1101—First Aid
WSS 2102—Human Anatomy
WSS 2111—Kinesiology
WSS 2112—Exercise Physiology
WSS 2121—Prevention and Care of Injuries
WSS 3201—Coaching and Internship

One of the following courses:

WSS 2201—Baseball Coaching
WSS 2202—Basketball Coaching
WSS 2203—Football Coaching
WSS 2204—Softball Coaching
WSS 2205—Track and Field Coaching
WSS 2206—Volleyball Coaching
WSS 2208—Soccer Coaching

Sports Management

The area of sports management focuses on contemporary sport as a product of social, psychological, and economic phenomena. Coursework in this area of concentration addresses such topics as ethics and sport; psychology of sport performance; lifetime fitness and health; philosophy of sports; sport facilities and equipment; sport promotion; and sport injuries.

Suggested concentration requirements

(See page 62 for more information on majors and areas of concentration.)

WSS 1051—Fitness for Life
WSS 1052—Societal Issues in Wellness and Health
WSS 1101—First Aid
WSS 2102—Human Anatomy
WSS 2111—Kinesiology
WSS 2112—Exercise Physiology
WSS 2121—Prevention and Care of Injuries
WSS 2401—Sociological Aspects of Sports
WSS 2402—Psychological Aspects of Sports
WSS 3210—Internship in Wellness and Sport Science
(min 4, max 8 cr)
WSS 4101—Planning and Programming of Athletic Facilities
WSS 4102—Organization and Administration of Athletics and Recreation
WSS 4901—Senior Seminar
Mgmt 2101—Principles of Accounting I
Mgmt 3201—Marketing Principles and Strategies
Mgmt 3701—Organizational Behavior
Stat 1601—Introduction to Statistics
Spch 1052—Introduction to Public Speaking

Two of the following courses:

WSS 2201—Baseball Coaching
WSS 2202—Basketball Coaching
WSS 2203—Football Coaching
WSS 2204—Softball Coaching
WSS 2205—Track and Field Coaching
WSS 2206—Volleyball Coaching
WSS 2208—Soccer Coaching

Note: Up to four credits of D may be used to meet the area of concentration requirements if offset by a sufficient number of higher grades to meet the minimum requirement of a cumulative GPA of 2.00 in all courses included in the area of concentration.

Course Descriptions

WSS 1051s, Fitness for Life. (2 cr)
Factors associated with a positive lifestyle, assessment of each individual’s current wellness status, and development of a personal lifetime program for improving one’s quality of life.

WSS 1052s, Societal Issues in Health and Wellness. (SS; 2 cr)
A study of how perceptions of society’s health and wellness issues affect our individual health/fitness choices.

WSS 1101s, First Aid. (1 cr)
Lectures, demonstrations, practical work in emergencies and first aid. Emphasis on accident prevention. National Safety Council first aid and CPR certification is awarded upon successful completion of the course.

WSS 1213f, Golf. (0.5 cr; repeatable to 1 cr; S-N only)
Introductory instruction in the skills and techniques of golf.

WSS 1219f,s, Strength Training. (0.5 cr; repeatable to 1 cr; S-N only)
Introductory instruction in the skills and techniques of strength training.

Varsity Athletics

All varsity athletics courses below carry 0.5 credit, are repeatable to a total of 2 credits, and are graded S-N only.

WSS 1401s, Varsity Baseball (M).
WSS 1402s, Varsity Basketball.
WSS 1403, Varsity Cross Country (W).
WSS 1404f, Varsity Football (M).
WSS 1405f, Varsity Golf.
WSS 1406s, Varsity Softball (W).
WSS 1407s, Varsity Tennis.
WSS 1408s, Varsity Track and Field.
WSS 1410f, Varsity Volleyball (W).
WSS 1411f, Varsity Soccer (W).
WSS 1412f, Varsity Swimming and Diving (W).

WSS 2102f, Human Anatomy. (3 cr; prereq soph)
Same as Biol 2102. Structure of human systems at their organ and cellular levels. (one 100-min lect, one 120-min lab)

WSS 2111f, Kinesiology. (Sci; 2 cr; prereq 2102)
Scientific principles of movement and tissue responses to force; analysis of basic movement in sports and other physical activities.

WSS 2112f, Exercise Physiology. (2 cr)
Human physiological adaptations resulting from activity/exercise.

WSS 2121s, Prevention and Care of Injuries. (4 cr; prereq 2111)
Introduction to safety measures, care, prevention, and rehabilitation of injuries in sports and other physical activities. (three 65-min lect, one 65-min lab)

WSS 2201s, Baseball Coaching. (2 cr)
History, psychology, and theory of the game, techniques of coaching each position, rules, batting, practice and game organization, strategy, officiating.

WSS 2202f, Basketball Coaching. (2 cr)
History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules, and techniques of coaching each position.
Division Structure and Course Descriptions

WSS 2203f. Football Coaching. (2 cr)
History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules, techniques of coaching each position.

WSS 2204s. Softball Coaching. (2 cr; offered every yrs)
History, psychology, and theory of the game, techniques of coaching each position, rules, batting, practice and game organization, strategy, officiating.

WSS 2205s. Track and Field Coaching. (2 cr)
History, psychology, and theory of the sports, techniques for all track and field events, methods of coaching, practice and meet organization, strategy, rules, officiating.

WSS 2206f. Volleyball Coaching. (2 cr)
History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules.

WSS 2208f. Soccer Coaching. (2 cr; offered every yrs)
History, psychology, and theory of the sport, individual techniques, practice and game organization, officiating, rules and strategies.

WSS 2401s. Sociological Aspects of Sports. (SS; 2 cr)
Sociological aspects of physical education, sports, and recreation and the implications this knowledge has for effective teaching, coaching, and athletic training.

WSS 2402s. Psychological Aspects of Sports. (SS; 2 cr; prereq 2401)
Psychological aspects of physical education, sports, and recreation and the implications this knowledge has for effective teaching, coaching, and athletic training.

WSS 3201f,s. Coaching Internship. (1 cr; prereq #; S-N only)
Supervised field experience in coaching, consisting of no fewer than 40 hours.

WSS 3210f,s. Internship in Wellness and Sport Science. (1-12 cr; repeatable once; prerequisite #; S-N only)
An educational experience in a work environment providing field applications for the student’s theoretical classroom learning experiences. Learning contract approved by instructor prior to registration.

WSS 4101s. Planning and Programming of Athletic Facilities. (SS; 4 cr)
Theories/techniques in administration/management of sport enterprises, including the steps in planning/building facilities for athletics, physical education, and sport for college, professional, and public use.

WSS 4102f. Organization and Administration of Athletics and Recreation. (SS; 4 cr; prereq 4101)
Comprehensive analysis of organization and management of athletics and recreation.

WSS 1993f,s, 2993f,s, 3993f,s, 4993f,s. Directed Study. (1-5 cr; repeatable to 10 cr; prerequisite approved directed study form)

Continuing Education Courses
WSS 1224f,s. CE: Wellness Skills: R.A.D.—Basic Self-Defense System. (0.5 cr; S-N only)
A comprehensive program of realistic, self-defense tactics and techniques for women. Includes awareness, prevention, risk reduction and avoidance, progressing to the basics of hands-on defense training. Utilizes nationally approved/recognized curriculum.

WSS 1301f,s. CE: Beginning Karate. (0.5 cr; S-N only)
Terminology, fundamentals, basic techniques of blocking, punching and kicking; basic attack and defense strategies.

WSS 1303f,s. CE: Advanced Karate. (0.5 cr; prerequisite 1301 or #; S-N only)
Continuation of 1301. Detailed instruction in authentic karate technique. Instructor sets groundwork as students begin training for first degree black belt.

WSS 2321f,s. CE: Group Fitness Instructor Training. (2 cr; S-N only)
Principles and foundation of group exercise leadership and instruction; development and progression of all components of an exercise program including movements, choreography, health screening and assessments, and prevention of injuries common to an exercise program. Preparation for national certification examinations in aerobics instruction.

WSS 2324. CE: Advanced R.A.D. (Rape Aggression Defense System). (1 cr; prerequisite 1224; S-N only)
Builds on self-defense techniques and awareness, prevention and avoidance strategies learned in basic R.A.D., adding defenses against the edged weapon and firearm. Covers more prone defense strategies, multiple subject encounters, and low and diffused light simulation exercises.

WSS 2331f,s. CE: Personal Training Preparation. (2 cr; S-N only)
Concepts, theory, practice, and research in personal training and conditioning. Basic anatomy and physiology, principles of strength training, overview of training equipment, fitness assessments, designing individual exercise programs, legal liabilities, national certifications, and review of research. Preparation for national certification examinations in the areas of personal training and strength conditioning.

Women’s Studies (WoSt)

This is an interdisciplinary program housed in the Division of the Social Sciences. The program is administered by the coordinator of women’s studies who is a faculty member of any of the four divisions.

Objectives—To explore the history, position, and roles of women as well as the attitudes concerning them and to acquaint students with the changing determinants of women’s situations.

Major Requirements
Some of the courses required for the major carry prerequisites. Students interested in the major should meet with the coordinator of women’s studies before the end of their junior year.

Minimum of 40 credits to include:
- WoSt 1101—Introduction to Women’s Studies
- Engl 2031—Gender in Literature and Culture
- Psy 3051—The Psychology of Women and Gender
- Soc 3121—Sociology of Gender
- WoSt 4901—Assessment of Student Learning in Women’s Studies
- WoSt 4993—Directed Study
Women's Studies

One course from:
- Anth 2302 — Women in Latin America
- Anth 2452 — Native American Women
- Soc 2101 — Systems of Oppression
- Soc 2302 — Women in Latin America
- Soc 2452 — Native American Women
- Soc 3252 — Women in Muslim Society

An additional 15 credits are to be selected from the courses listed in the course description section below. These courses must come from at least three different disciplines. A course not listed may be applied to the 15-credit requirement with the consent of the instructor and women’s studies major adviser. Any directed study course for which an instructor is available is acceptable provided the subject matter is appropriate. 

Students develop a coherent program of study in consultation with their major adviser. Advisers are usually faculty with backgrounds or specialties related to women’s studies. When the program and plan are approved by the adviser, they are forwarded to the coordinator of women’s studies.

Courses with grades of D are not acceptable to meet the major requirements.

Minor Requirements

WoSt 1101 — Introduction to Women’s Studies

An additional 24 credits from the courses listed below are to be selected from at least three different disciplines.

Course Descriptions

**Anth 2302f. Women in Latin America.** (IP; 4 cr; prereq 1111 or Soc 1101 or #)

Same as Soc 2302. Study of social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women, etc.

**Anth 2452s. Native American Women.** (HDiv; 4 cr; prereq 1111 or Soc 1101 or #)

Same as Soc 2452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

**Arth 3281f. Women and Art.** (FA; 4 cr; prereq any 1xxx Arth course or # status or #; not offered 2005-06)

A historical survey of women’s roles as creators and patrons of the visual arts in Western European and American societies, from antiquity to the present.

**Arts 3006. Media Studies: Feminist Art: A Studio Perspective.** (Artp; 3 cr; prereq major or minor or #)

The impact of the women’s movement of the 1970’s on contemporary art. Exploration of the notion of “women’s work” as a studio practice; the materials, methods, and issues that define feminist work.

**Biol 3101s. Genetics.** (Sci-L; 4 cr; prereq 2111 or #)

Principles and mechanisms of inheritance and variation, including cytological, organismal, and population genetics; mechanisms of evolution; and the genetic problems of humans. (two 65-min lect, one 120-min lab)

**Econ 4101f. Labor Economics I.** (HDiv; 2 cr; prereq 3021 or #)

Wage and employment determination. Distribution of earnings and earnings inequality by race and sex. Labor supply applications.

**Engl 3153f. Gothic Literature.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, or 2212)

The cultural origins of gothic literature in tension with the neoclassical values of 18th-century Britain and its persistent influence over the next two centuries (including its relationship to modern horror fiction and film). Emphasis on the ways gothic tales encode cultural anxieties about gender, class, and power.

**Engl 3231. Women and Modernism: A Room of Her Own.** (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, or 2212)

A study of formal and thematic innovations in fiction and poetry by women of the early 20th century. Includes Virginia Woolf, Gertrude Stein, Marianne Moore, and H.D.

**Engl 3342. Chicana/os and Latinas/os in Film.** (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212 or #; offered when feasible)

Focus on how Chicanas/os and Latinas/os have been represented in Hollywood films and how Chicana/o and Latina/o writers, actors, and filmmakers have portrayed their peoples, cultures, and various issues in films and writings.

**Fren 1304f. French Women Authors in Translation.** (IP; 4 cr; prereq #: not offered 2006-07)

Same as Hum 1304. French women’s movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Taught in English, but all papers and some reading/discussion will be in French. Meets Modern requirement in French major.

**Ger 3501s. Women’s Issues in Contemporary German Culture.** (IP; 4 cr; prereq 3011 or #; offered when feasible)

Same as Hum 3501. Focus is on the German women’s movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

**Hist 1402. Women in U.S. History.** (IP; 4 cr; offered when feasible)

Themes and methods in the history of women in the United States. Topics may include women in the colonial era; American Indian, African American, and immigrant women; sex roles; women and work, family, politics, the law, and religion.
Division Structure and Course Descriptions

Hist 3001f. Families Through the Prism of Memory, Genealogy, and History. (Hist; 4 cr)
Historical and genealogical approach to the study of family.

Hist 3701. Women and Religion: A History. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
A historical discussion of women in non-Western and Western religions.

Hist 3702. The History of Women in the West. (HDiv; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Focuses on the intellectual as well as political, social, and economic history of pre-European, western European, and American women.

Hist 3703. 20th-Century European Women. (Hist; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Social history of 20th-century European women.

Hist 3704. Women in the Middle Ages. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Examination of lives of women in Europe from about 500 to 1500.

Hist 3706. Women in Early Modern Europe. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible)
Examination of lives of women in Europe from about 1350 to 1750.

Hist 3707s. Gender in East Asia. (HDiv; 4 cr; not offered 2006-07)
Study of the changing perceptions of gender in East Asia from its earliest written records until the present. Special emphasis on the changing role of women in East Asia. Exploration of the way gendered discourse affected broader understandings of society, politics, the economy, and culture. Background in East Asian history, while preferred, is not required.

Hum 1304f. French Women Authors in Translation. (IP; 4 cr; not offered 2006-07)
Same as Fren 1304. French women’s movements during the twentieth century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1304.

Hum 3501s. Women’s Issues in Contemporary German Culture. (IP; 4 cr; offered when feasible)
Same as Ger 3501. Focus is on the German women’s movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Phil 2112f. Professional Ethics. (E/CR; 4 cr)
A critical examination of moral issues that arise in a person’s professional life. Possible topics include affirmative action, autonomy in the workplace, ethical issues in advertising, corporate responsibility, coercive wage offers, distributive justice, and sexual harassment. Issues concerning race, gender, and women are included in selected modules.

Phil 2141s. Introduction to Analytic Feminism. (Hum; 4 cr)
 Applies an analytical approach to issues discussed in feminist writings. A mixture of lecture and discussion. Requirements include essay exams, papers, attendance, service-learning projects with related reflective journals, and class participation.

Pol 4503s. Women in Politics Worldwide. (IP; 4 cr; prereq 1201, 2101 or #; not offered 2005-06)
Examines the ways gender influences politics throughout the world. Topics covered include the “gender gap” and voter turnout, women’s involvement in linkage organizations, such as parties and interest groups, and finally, policy outcomes regarding women in different kinds of political systems.

Psy 1071f. Human Sexuality. (SS; 4 cr)
Survey of aspects of human sexuality, including intimacy and communication; male and female anatomy, physiology, and response; development of identity, sex role, and gender orientation; varieties of sexual expression; pregnancy and childbirth; contraception and disease prevention; sexual coercion and abuse; sexual dysfunctions and their treatment.

Psy 3051s. The Psychology of Women and Gender. (HDiv; 4 cr; prereq 1051 or #)
Exploration of the interactive biological, psychological, and sociocultural processes that shape the lives of women and the experience of gender. Topics include: the psychobiology of sex; the social construction of sex and gender; socialization and development; media representations; identity and sexuality; language and communication; motivation and personality; relationships; work and family lives; mental and physical health; mid- and later life development; victimization; therapy; intersections of race, class, and gender; and feminist approaches to teaching, learning, and knowing.

Psy 3221s. Behavioral Biology of Women. (Sci; 2 cr; prereq 3211 or Biol 2111 or #; offered when feasible)
Exploration of proximate and ultimate influences on female behavior in human and nonhuman species. Sexual differentiation, gender differences in cognition, biological basis of sexual orientation, female sexual selection, and dominance.

Psy 4896f,s. Field Experiences in Psychology. (SS [if taken for 2 or more cr]; 1-4 cr; repeatable, only 4 cr may be applied to the BA or the Psy major; prereq #, which normally requires 4101 for work in psychiatric settings, 3302, 3401 or 3402 for work in schools; S-N only)
Individually arranged, supervised observation of and assistance with activities of professional psychologists in schools, clinics, hospitals, and other field settings.

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

Soc 2302f. Women in Latin America. (IP; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2302. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women, etc.
**Soc 2452s. Native American Women.** (HDiv; 4 cr; prereq 1101 or Anth 1111 or #)
Same as Anth 2452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

**Soc 3121f. Sociology of Gender.** (HDiv; 4 cr; prereq 1101 or Anth 1111 or #)
An introduction to the sociological study of gender. Focus on gender difference and gender inequality. Analysis of the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today’s world. Theoretical overview and an examination of how gender affects everyday experiences.

**Soc 3252s. Women in Muslim Society.** (IP; 4 cr; prereq 1101 or Anth 1111)
The cultures and social statuses of women in several Muslim countries are examined and placed in their political, economic, and religious contexts.

**WoSt 1101. Introduction to Women’s Studies.** (HDiv; 4 cr; A-F only)
Overview of gender and feminist theory, history of the women’s movement, and the impact of gender on everyday life.

**WoSt 4101. Feminist Theory.** (HDiv; 4 cr; prereq 1101 or 1111 or #; offered when feasible)
Engages students in a critical examination of several influential works participating in the elaboration of feminist theories. Readings and discussions focus on a series of themes and issues—gender, sexuality, race, class, language, bodies—and how these issues bear upon society.

**WoSt 4901. Assessment of Student Learning in Women’s Studies.** (1 cr; prereq completion of 32 cr in women’s studies; S-N only)
Requires a portfolio collecting syllabi and documents from courses or internships in women’s studies; a paper reviewing the UMM women’s studies program; participation in a panel discussion. Students can work with any faculty teaching women’s studies courses.

**WoSt 3993f,s, 4993f,s. Directed Study.** (1-5 cr; repeatable to 10 cr; prereq approved directed study form)
Research in women’s studies.