

units from the electives list for the units required here.

**Note:** The minors also require a 2.0 GPA and 6 upper-division units in residence.

## Credential Program

See the Social Sciences credential adviser, Department of History, in Social Science, Room 101, for advising, and refer to *Secondary Teaching Credential* under Social Sciences Programs.

## Graduate Program

The Department of Geography offers the Master of Arts degree in Geography. Students may select thesis or nonthesis options, both of which require the completion of 30 units of graduate work. Electives may be chosen that emphasize skills necessary to compete successfully for private or public employment opportunities or that will prepare graduates to teach geography at the community college level. All graduates will be well prepared for entry into doctoral programs in geography or related fields.

Structure and content of the Master of Arts program in Geography reflect the philosophy that all graduates shall be geographically literate. The program provides an education that incorporates a balance between theory and practice, cultural and physical, and technical and regional geography. In order to implement this philosophy, program content ensures that graduates have an opportunity to develop a sound knowledge of geographical theory, concepts, and practice; an awareness of the importance of excellence of communication skills; and an ability to make effective use of verbal, written, computer-based, and graphic media.

The department recognizes the growing demand for new and rapidly expanding technical dimensions in geography and its allied disciplines and thus offers graduate courses in Geographic Information Systems (GIS) and city and regional planning. Special program needs of individual students may be met through cooperative agreements with other departments in the College of Social Sciences.

## Master of Arts\*\*\* Degree Requirements

Applicants to the Master of Arts in Geography who have an undergraduate degree in Geography may be admitted with classi-

fied standing if they meet the following requirements:

1. have earned a minimum GPA of no less than 3.0 in the undergraduate geography major and
2. have demonstrated competence in computer applications, statistics, and cartography or computerized mapping.

Applicants who hold an undergraduate degree in geography, but who do not meet these requirements may be admitted at the discretion of the Graduate Committee. At the time of admission, the Graduate Committee will specify the conditions that must be met to achieve classified standing.

Applicants to the degree program for the Master of Arts in Geography who do not have an undergraduate degree in Geography may be admitted with conditional classified standing and must meet the following requirements as a condition for receiving classified standing.

1. Have completed lower-division geography courses, with a grade of *B* or better, in each of the following areas:
  - a. Cultural geography, equivalent to GEOG 2
  - b. World regional geography, equivalent to GEOG 4
  - c. Physical geography, equivalent to GEOG 5 and GEOG 7
2. Have completed a minimum of 12 upper-division units of geography with a GPA of no less than 3.0.
3. Have demonstrated competence in the following three areas: (1) computer applications, (2) statistics, and (3) cartography, computerized cartography, or other acceptable graphics-oriented area.

(See also *Admission to Graduate Standing, Advancement to Candidacy, Program Requirements, and Criteria for Thesis and Project*.)

For specific requirements, consult the department graduate adviser or the department chair; for general requirements, see the *Division of Graduate Studies* section in this catalog.

Under the supervision of the department's graduate adviser, each student develops and submits a proposed program of study for approval by the department's Graduate Committee and chair. This 30-unit degree program must include a minimum of 21 units taken from 200-series courses. In

addition, programs must include the following elements:

	<i>Units</i>
Graduate Core Seminars .....	<b>9</b>
GEOG 200*, 230, and	
GEOG 206T or 260T	
Electives .....	<b>15-18</b>
Select from 100- and 200- level geography and other related courses**	
Thesis or Project .....	<b>3-6</b>
<b>Total</b> .....	<b>30</b>

\* GEOG 200 meets the graduate writing skills requirement and must be completed prior to advancement to candidacy.

\*\* Courses must be selected in consultation with the departmental graduate adviser. A maximum of 9 units may be selected from related disciplines.

\*\*\* As of fall 1998, admission to the M.A. in Geography has been suspended. Suspension is not expected to exceed three years.

## COURSES

### **Introductory Geography (GEOG)**

#### 2. Introduction to Cultural Geography (3)

General background to cultural geography, including origins of cultural landscapes, man's modification of the natural environment, and problems of population and settlement geography. G.E. Breadth D3. (CAN GEOG 4)

#### 4. World Geography (3)

Survey of world-wide social, cultural, economic and political forces; earth's physical features; economic development; cultural and natural resources; man-land relationships. Applicable concepts and methodologies. Approach is by continents and/or cultural realms. G.E. Breadth D3.

#### 5. Physical Geography: Global Concepts, Weather and Climate (3)

The earth as a planet, map projections, location on the earth's surface, time, oceans, weather, and climate.

#### 7. Physical Geography: The Earth's Surface (3)

A survey of those elements of the physical environment at the earth-atmosphere contact. Fundamentals of landform features, soils, natural vegetation, and water bodies.

#### 10. Introduction to Meteorology (3)

Not open to students with credit in GEOG 5. Prerequisite: completion of the General Education Quantitative Reasoning requirement. Study of earth's atmosphere and