GEOGRAPHY - MINOR

Information on earning a minor in Geography can be found here (http://geography.colorado.edu/undergrad_program/minor_and_certificates). The department offers a certificate in hydrology (http://snobear.colorado.edu/IntroHydro/certificate.html) for undergraduate students majoring or minoring in Geography.

Requirements
Declarations of a minor is open to any student enrolled at CU Boulder, regardless of college or school affiliation.

- Participation in the minor program is optional on the part of the student.
- A minimum of 18 credit hours must be taken in the minor area, including a minimum of 9 upper-division credit hours.
- All course work applied to the minor must be completed with a grade of C- or better. No pass/fail work may be applied. The GPA of all minor degree course work must equal 2.00 (C) or greater.
- Student pursuing an individually structured major, or who are pursuing a major in distributed studies, will not be eligible to earn a minor.
- Students will be allowed to apply no more than 9 credit hours (including 6 upper-division) of transfer work toward a minor.
- Course work applied toward a minor may also be applied toward Core Curriculum and major requirements.

No specific concentration is required. However, students who do wish to focus on one area of geography should see the suggested course lists below. The list of courses may change at the department's discretion.

Physical Geography Focus
The following two courses are prerequisites to all upper-division courses listed further below.

GEOG 1001 Environmental Systems: Climate and Vegetation ³ 4
GEOG 1011 Environmental Systems: Landscapes and Water ³ 4

Among upper-division courses, the following sequences are suggested:

Climatology
GEOG 3301 Analysis of Climate and Weather Observations ³ 3
GEOG 3601 Principles of Climate ³ 3
GEOG 4331 Mountain Climatology ³-4

Biogeography
GEOG 3351 Biogeography ³ 3
GEOG 4371 Forest Geography: Principles and Dynamics ³ 3
GEOG 4401 Soils Geography ³ 3

Hydrology and Geomorphology
GEOG 3511 Introduction to Hydrology ³ 4
GEOG 4241 Principles of Geomorphology ³ 4
GEOG 4321 Snow Hydrology ³-4
GEOG 4401 Soils Geography ³ 3

In addition, you will find it important to complete a course in statistics at the time you commence upper-division work in physical geography. Students considering graduate school in physical geography are strongly encouraged to complete a year of course work in general chemistry, physics, calculus and statistics.

Upper-Division Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 3001</td>
<td>Analysis of Climate and Weather Observations</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3601</td>
<td>Principles of Climate</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3351</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3511</td>
<td>Introduction to Hydrology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 4241</td>
<td>Principles of Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 4321</td>
<td>Snow Hydrology</td>
<td>3-4</td>
</tr>
<tr>
<td>GEOG 4401</td>
<td>Soils Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Core curriculum course.

Human Geography Focus
One of the following four courses are prerequisites to all upper-division courses listed further below.

GEOG 1962 Geographies of Global Change ³ 3
GEOG 1972 Environment-Society Geography ³ 3
GEOG 1982 World Regional Geography ³ 3
GEOG 1992 Human Geographies ³ 3

Upper-Division Courses
Additional prerequisites are listed.

GEOG 3672 Gender and the Global Economy ³ 3
GEOG 3682 Geography of International Development ³ 3
GEOG 3742 Place, Power, and Contemporary Culture ³ 3
GEOG 3812 Mexico, Central America, and the Caribbean ³ 3
GEOG 3822 Geography of China ³ 1
GEOG 3832 Geographies of South Asia ³ 3
GEOG 3862 Geography of Africa ³ 3
GEOG 4023 Introduction to Quantitative Methods in Human Geography ³ 3
GEOG 4292 Migration, Immigrant Adaptation, and Development ³ 3
GEOG 4622 City Life ³ 3
GEOG 4712 Political Geography ³ 3
GEOG 4732 Population Geography ³ 3
GEOG 4742 Topics in Environment and Society ³ 3
GEOG 4812 Environment and Development in South America ³ 3
GEOG 4822 Environment and Development in China ³ 3
GEOG 4832 Geography of Tibet ³ 3

¹ Core curriculum course.

Environment-Society Geography Focus
The following two courses are prerequisites to all upper-division physical geography courses listed further below.

GEOG 1001 Environmental Systems: Climate and Vegetation ³ 4
Geography - Minor

GEOG 1011 Environmental Systems: Landscapes and Water 1 4

GEOG 1972 is a prerequisite for all upper division human and environment society geography courses.

Upper-Division Courses
Additional prerequisites may be listed.

GEOG 3251 Mountain Geography 3
GEOG 3301 Analysis of Climate and Weather Observations 1 3
GEOG 3351 Biogeography 3
GEOG 3402 Natural Hazards 3
GEOG 3412 Conservation Practice and Resource Management 3
GEOG 3422 Political Ecology 3
GEOG 3511 Introduction to Hydrology 1 4
GEOG 3601 Principles of Climate 1 3
GEOG 3612 Geography of American Cities 3
GEOG 3682 Geography of International Development 3
GEOG 3692 Introduction to Global Public Health 3
GEOG 3812 Mexico, Central America, and the Caribbean 3
GEOG 3822 Geography of China 1 3
GEOG 3862 Geography of Africa 3
GEOG 4401 Soils Geography 3
GEOG 4430 Seminar: Conservation Trends 3
GEOG 4501 Water Resources and Water Management of Western United States 3
GEOG 4742 Topics in Environment and Society 3
GEOG 4632 Development Geography 3
GEOG 4812 Environment and Development in South America 3
GEOG 4822 Environment and Development in China 3
GEOG 4852 Health and Medical Geography 3

1 Core curriculum course.

Geographic Information Science Focus
Students undertaking the GIS Certificate as well as a GEOG minor must take at least 9 credits of non-GIS GEOG classes to satisfy the minor requirements.

The following are prereqs for all upper division courses, unless otherwise noted.

GEOG 3023 Statistics for Geography 4
GEOG 3053 Cartography: Visualization and Information Design 4

Upper-Division Courses

GEOG 4023 Introduction to Quantitative Methods in Human Geography 4
GEOG 4043 Cartography 2: Interactive and Multimedia Mapping 4
GEOG 4093 Remote Sensing of the Environment 4
GEOG 4103 Introduction to Geographic Information Science 4
GEOG 4203 Geographic Information Science: Modeling Applications 4
GEOG 4173 Research Seminar 3
GEOG 4303 GIS Programming for Spatial Analysis 4