

# GEOGRAPHY, BACHELOR OF ARTS

## Requirements

### Total Course Requirements for the Bachelor's Degree

See the "Requirements for the Bachelor's Degree (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/>)" in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

### Elective Requirements

Completion of elective courses (beyond the requirements listed below) to reach a total of a minimum of 120 units.

### General Education Requirements (49 units)

See the "General Education (<https://catalog.csudh.edu/general-education/>)" requirements in the University Catalog or the Class Schedule for the most current information on General Education requirements and course offerings.

### Graduation Writing Assessment Requirement

See the "Graduation Writing Assessment Requirement (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/gwar-certifying-courses/>)" in the University Catalog.

### Minor Requirements

Students completing this major will need to complete a minor in another field.

### Major Requirements (34 units)

The following courses (or for lower division courses, their approved transfer equivalents) are required for all candidates for this degree:

Code	Title	Hours
<b>Lower Division Required Courses</b>		
GEO 100	Human Geography	3
GEO 200	Physical Geography	3
<b>Upper Division Required Courses</b>		
GEO 310	Geomorphology	3
GEO 357	Urban Environmental Geography	3
GEO 370	Numerical Methods in Geography	3
GEO 415	Geographic Information Systems	3
EAR 490	Sr Sem In Earth Sciences	1
<b>Elective Courses</b>		
Select at least five courses from the following:		15
GEO 305	Cartography	
GEO 315	The Weather	
GEO 350	World Geography	
GEO 360	North America	
GEO 380	Biogeography	
GEO 408	Remote Sensing and Image Processing	
GEO 412	Rivers and Streams	
GEO 415	Geographic Information Systems	
GEO 416	Earth's Climates	

GEO 420	Natural Resources
GEO 433	Environmental Analysis
GEO 495	Special Topics In Geography
EAR 376	Field Mapping
EAR 460	Global Change

**Total Hours** **34**

## Program Learning Outcomes

#### • Geographic Literacy:

- Students will apply their knowledge of the world's geography by interpreting topographic and thematic maps. They will demonstrate their ability to think geographically by analyzing geographic problems at a variety of scales.

#### • Environmental Processes:

- Students will demonstrate their understanding of the utilization and distribution of key natural resources. This will include fundamental transport processes such as the hydrologic cycle, the rock cycle, and circulations through the world ocean and global atmosphere and their relationship to contemporary environmental issues.

#### • Geotechniques:

- Students will demonstrate their understanding of geotechniques such as GIS, remote sensing, spatial statistics, and field maps. Students will apply spatial statistics and other forms of numerical analysis to interrogate existing and original geographical data sets.

#### • Field Experience:

- Students will apply field research techniques toward the completion of field mapping and other data collection exercises.

#### • Written and Oral Communication:

- Students will demonstrate their ability to describe research and to summarize research results in essays, written reports and oral presentations.

#### • Group Activities:

- Students will be able to work together in small groups to collect and analyze classroom/field data and they will demonstrate their ability to collaborate with other students to deliver research presentations.

#### • Professional Preparation:

- Students will hone research skills and work on research projects which reflect their command of the subject matter and its relevance to contemporary environmental issues, as well their command of geotechniques and their application. The research projects prepare students for graduate school and/or the workforce, and can be used as examples of the kinds of knowledge and expertise that they could bring to prospective employers.

## 4- Year Degree Roadmap

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
GE Area A2 Written Communication		3
GE Area A3 Logic/Critical Thinking		3
GE Area C Arts and Humanities		3
GEO 100	Human Geography	3
GE Area E Lifelong Learning and Self-Development		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
THE 120	Fundamentals of Speech	3
GEO 200	Physical Geography	3
GE Area B4 Quantitative Reasoning		3
GE Area C		3
GE Area D		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
GE Area B2 Life Science		3
GE Area B3 Science Laboratory		1
GE Area C or D		3
HIS 101	History Of United States	3
Minor Requirement		3
Elective to meet 120 units		2
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
POL 101	American Institutions	3
GE Area F Ethnic Studies		3
Minor Requirement		3
Minor Requirement		3
Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
GEO 310	Geomorphology	3
GEO 415	Geographic Information Systems	3
GE Area B5 Integrative Studies in the Natural Sciences		3
Major Elective		3
GWAR satisfying course		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
Major Elective		3
Major Elective		3
GE Area C3 or D3		3
Minor Elective		3
Minor Elective		3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
GEO 357	Urban Environmental Geography	3
GE Area C3 or D3		3
Major Elective		3
Minor Elective		3
Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
GEO 370	Numerical Methods in Geography	3
EAR 490	Sr Sem In Earth Sciences	1
Major Elective		3
Minor Elective		3
Elective to meet 120 units		3
Elective to meet 120 units		3
<b>Hours</b>		<b>16</b>
<b>Total Hours</b>		<b>121</b>

GEO 415	Geographic Information Systems	3
GE Area B5 Integrative Studies in the Natural Sciences		3
Major Elective		3
GWAR satisfying course		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
Major Elective		3
Major Elective		3
GE Area C3 or D3		3
Minor Requirement		3
Elective to meet 120 units (or minor elective if req.)		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
GEO 357	Urban Environmental Geography	3
Major Elective		3
Minor Requirement		3
GE Area C3 or D3		3
Elective to meet 120 units (or minor elective if req.)		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
GEO 370	Numerical Methods in Geography	3
EAR 490	Sr Sem In Earth Sciences	1
Major Elective		3
Minor Requirement		3
Elective to meet 120 units (or minor elective if req.)		3
Elective to meet 120 units		3
<b>Hours</b>		<b>16</b>
<b>Total Hours</b>		<b>61</b>

## 2-Year Roadmap (transfer students)

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
GEO 310	Geomorphology	3