

Name: _____
 Plan: Geography, B.S.
 SubPlan/Option: Geospatial Analysis
 Min. Units Required: 120 units

Major Required 19 units

- GEO1010 - Physical Geography (3) (B1)
- GEO1010L - Physical Geography Lab (1) (B3)
- GEO1020 - Human Geography (3) (D3)
- GEO2400 - Geographic Information Systems (2)
- GEO2400L - Geographic Information Systems Laboratory (1)
- GEO3090 - Introduction to Field Geography (2)
- GEO3090L - Introduction to Field Geography Laboratory (1)
- GEO 35XX - Regional Geography (3)
- GEO4610 - Senior Project/Capstone 1 (3)

Subplan/Option Required 15 units

- GEO3220 - GIS Programming and Application (2)
- GEO3220L - GIS Programming and Application Laboratory (1)
- GEO4050 - Geodemographics with GIS Lecture (2)
- GEO4050L - Geodemographics with GIS Laboratory (1)
- GEO4100 - Remote Sensing of the Environment (2)
- GEO4100L - Remote Sensing of the Environment Laboratory (1)
- GEO4400 - Advanced GIS (2)
- GEO4400L - Advanced GIS Laboratory (1)
- GEO4430 - Quantitative Spatial Analysis (2)
- GEO4430L - Quantitative Spatial Analysis Laboratory (1)

Subplan/Option Electives 3 units

- GEO 3xxx or 4xxx - Geography Course (3)

Unrestricted Electives 35-41 units

Select a sufficient number of courses so that the total from "Major Required", "GE", and "Unrestricted Electives" is at least 102 units.

General Education Requirements 48 Units

Students should consult the Academic Programs website
<https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml>
 for current information regarding this requirement. Unless specific courses are required, please refer to the list of approved courses under General Education Requirements, Areas A through E.

Area A. English Language Communication and Critical Thinking (9 units)

At least 3 units from each sub-area

1. Oral Communication
2. Written Communication
3. Critical Thinking

Area B. Scientific Inquiry and Quantitative Reasoning (12 units)

At least 3 units from B1, B2, B4, and B5 including 1 unit of lab from B1 or B2 to fulfill B3

1. Physical Sciences
2. Life Sciences
3. Laboratory Activity
4. Mathematics/Quantitative Reasoning
5. Science and Technology Synthesis

Area C. Arts and Humanities (12 units)

At least 3 units from each sub-area and 3 additional units from sub-areas 1 and/or 2

1. Visual and Performing Arts
2. Literature, Modern Languages, Philosophy and Civilization
3. Arts and Humanities Synthesis

Area D. Social Sciences (12 units)

At least 3 units from each sub-area

1. U.S. History and American Ideals
2. U.S. Constitution and California Government
3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics
4. Social Science Synthesis

Area E. Lifelong Learning and Self-Development (3 units)

Interdisciplinary General Education 21 Units

An alternate pattern for partial fulfillment of GE Areas A, C, and D available for students is the Interdisciplinary General Education (IGE) program. Students should see an advisor for specific GE coursework required by their major. Please refer to the University Catalog General Education Program section for additional information.

How IGE fulfills General Education Requirements:

Year	Completion of IGE Courses	Satisfies GE Requirements
First	IGE 1100, IGE 1200	A2 and C2
Second/Third	IGE 2100, IGE 2200	C1 and C2
	IGE 2300, IGE 2400	D1 and D3
Third/Fourth	IGE 3100	C3 or D4

American Institutions 6 Units

Courses that satisfy this requirement may also satisfy GE Area D1 and D2.

American Cultural Perspectives Requirement 3 Units

Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.

Graduation Writing Test

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the semester following completion of 60 units for undergraduates.