**Major Required Core**  
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 Core**  
15 units  
- GEO3070 - Climate Change (2)  
- GEO3070L - Climate Change Laboratory (1)  
- GEO3080 - Biogeography (2)  
- GEO3080L - Biogeography Laboratory (1)  
- GEO3300 - Environmental Geography (2)  
- GEO3300L - Environmental Geography Laboratory (1)  
- GEO4150 - Geography and Emergency Management (3)  
- GEO4450 - Environmental Modeling with GIS (2)  
- GEO4450L - Environmental Modeling with GIS Laboratory (1)  

**Subplan/Option Electives**  
3 units  
- GEO 3XXX or 4XXX - Geography Course (3)  

**Unrestricted Electives**  
35-42 units  
Select a sufficient number of courses so that the total from "Major Required Core", "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](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)**  
1. Oral Communication  
2. Written Communication  
3. Critical Thinking  

**Area B. Scientific Inquiry and Quantitative Reasoning (12 units)**  
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)**  
1. Visual and Performing Arts  
2a. Philosophy and Civilization  
2b. Literature and Language Other than English  
3. Arts and Humanities Synthesis  

**Area D. Social Sciences (12 units)**  
1. U.S. History and American Ideals  
2. U.S. Constitution and California Government  
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.

<table>
<thead>
<tr>
<th>Year</th>
<th>Completion of IGE Courses</th>
<th>Satisfies GE Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>IGE 1100, IGE 1200</td>
<td>A2 and C2b</td>
</tr>
<tr>
<td>Sophomore</td>
<td>IGE 2100, IGE 2200</td>
<td>C1 and C2a</td>
</tr>
<tr>
<td>Junior</td>
<td>IGE 2300, IGE 2400</td>
<td>D1 and D3</td>
</tr>
<tr>
<td>Senior</td>
<td>IGE 3100</td>
<td>C3 or D4</td>
</tr>
</tbody>
</table>

**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.