

# UC SANTA BARBARA

## Geography

**2022-23 Upper Division Course List with Course Numbers and Titles SUBJECT TO CHANGE**

### Physical Geography

Geog 102	Intro to Environmental Optics in Physical Geography
Geog 104	Physical Geography of the World's Oceans (or Ocean Sci Area B)
Geog 110	Introduction to Meteorology (or Ocean Sci Area D)
Geog 112	Environmental Hydrology
Geog 114A	Soil Science
<b>Geog 114B</b>	<b>Soil Genesis and Classification</b>
<b>Geog 116</b>	<b>Groundwater Hydrology</b>
<b>Geog 119</b>	<b>Climatic Change and Its Consequences</b> (or Ocean Sci Area D)
<b>Geog 130</b>	<b>The Urban Environment</b>
Geog 131	Mountain Weather & Climate (or Ocean Sci Area D)
<b>Geog 132</b>	<b>Coastal Pollution</b> (or Ocean Sci Area C)
<b>Geog 133</b>	<b>Tropical Meteorology</b> (or Ocean Sci Area D)
Geog 134	Earth System Science (or Ocean Sci Area D)
<b>Geog 136</b>	<b>Field Studies in Water, Energy, and Ecosystems</b>
<b>Geog 137</b>	<b>Quantitative Geomorphology</b>
<b>Geog 142</b>	<b>Global Biogeochemical Cycles</b> (or Ocean Sci Area D)
<b>Geog 144</b>	<b>Form, Process, and Human Use of Rivers</b>
<b>Geog 162</b>	<b>Environmental Water Quality</b>
<b>Geog 163</b>	<b>Ocean Circulation</b> (or Ocean Sci Area C)
<b>Geog 165</b>	<b>Waves and Tides in the Ocean</b> (or Ocean Sci Area C)
<b>Geog 166</b>	<b>Ocean Carbon Cycle and Climate</b> (or Ocean Sci Area C)
<b>Geog 167</b>	<b>Biogeography – Study of Plant and Animal Distributions</b>

### Geographical Techniques

Geog 115A	Remote Sensing of the Environment 1
Geog 115B	Remote Sensing of the Environment 2
<b>Geog 115C</b>	<b>Remote Sensing of the Environment 3</b>
Geog 117	Scientific Research Methods in Geography
Geog 126	Maps in Science and Society
Geog 128	Analytical and Computer Cartography
<b>Geog 172</b>	<b>Intermediate Geographical Data Analysis</b> (Ocean Sci Area A)
<b>Geog 175</b>	<b>Measuring our Environment</b>
<b>Geog 176A</b>	<b>Introduction to Geographic Information Systems</b>
<b>Geog 176B</b>	<b>Technical Issues in Geographic Information Systems</b>
<b>Geog 176C</b>	<b>GIS Design and Applications</b>
Geog 178	Conceptual Modeling and Programming for the Geo-Sciences
Geog 183	Cartographic Design and Geovisualization
Geog 184	Introduction to Cartographic Programming
Geog 186	Analysis and Modeling of Movement
<b>Geog 190</b>	<b>Location Theory and Modeling</b>
Geog 191	Introduction to Optimization Methods for Geographic Problems

### Human Geography

Geog 101	Transportation Futures
<b>Geog 108</b>	<b>Urban Geography</b>
<b>Geog 109</b>	<b>Economic Geography</b>
<b>Geog 111A</b>	<b>Transportation Planning and Modeling</b>
<b>Geog 111B</b>	<b>Transportation Modeling and Simulation</b>
<b>Geog 111C</b>	<b>Smart Green Cities *Previously Geog 195KG</b>
<b>Geog 141A</b>	<b>Population Geography</b>
Geog 141B	Population and Development
Geog 141C	California Population Analysis and Policy
Geog 145	Society and Hazards
Geog 146	Introduction to Transportation
<b>Geog 152</b>	<b>Health Geography</b>
Geog 153A	Behavioral Geography
Geog 153B	Introduction to Spatial Decision Making and Behavior
<b>Geog 153C</b>	<b>Environmental Perception and Cognition</b>
Geog 153D	Spatial Decisions in Retailing
Geog 182	Global Cities in the Information Age
Geog 185A	Geography Planning and Policy Making
Geog 185B	Environmental Issues and Location Decision Making
Geog 185C	Local and Regional Economic Analysis

### Integrative and Regional Geography

Geog 113	Polar Environment
<b>Geog 140</b>	<b>Environmental Impacts in Human History</b>
<b>Geog 148</b>	<b>California</b>
<b>Geog 149</b>	<b>The California Channel Islands</b> (or Ocean Sci Area C)
<b>Geog 150</b>	<b>Geography of the United States</b>
Geog 155	Geography of Latin America
<b>Geog 158</b>	<b>Introduction to Marine Resources</b> (or Ocean Sci Area C)
Geog 159	Geography of Europe
Geog 160	Ocean Remote Sensing (or Ocean Sci Area C)
<b>Geog 161</b>	<b>World Agriculture, Food, and Population</b>
Geog 185D	Urban and Environmental System Analysis

### Individualized Courses \*departmental approval required

Geog 193	Internship in Geography (max 4 units toward the major)
Geog 198	Readings in Geography
Geog 199	Independent Studies in Geography
Geog 199RA	Independent Research Assistance in Geography

### Color Key

Fall 2022 Winter 2023 Spring 2023

**Bold indicates Specialized Physical Geography course**  
Revised 9/7/2022