- BA in Geography
  - Preparation
    - Geography 3A Oceans and Atmosphere
      - Dickey
      - King
      - Saleta
    - Geography 3B Land, Water and Life
      - Chadwick
      - Roberts
      - Smith
    - Geography 5 People, Place and Environment
      - Montello
      - Carr
    - Geography 12 Maps and Mapping
      - Clarke
    - At least one course from Area A, B, or C
      - A:
        - Chem 1A/1AL General Chemistry
        - EEMB 2-2L Introductory Biology II - Ecology and Evolution
        - EEMB 20 Concepts of Biology
        - EEMB 21 General Botany
        - MCDB 20 Concepts of Biology
        - ES 2 Introduction to Environmental Science
        - Geology 2 Principles of Physical Geology
        - Geology 4 Introduction to Oceanography
        - Physics 10 Concepts of Physics
      - B:
        - Anthropology 2 Introductory Cultural Anthropology
        - Anthropology 5 Introductory Physical Anthropology
        - Communications 1 Introduction to Communication
        - Economics 1 Principles of Economics - Micro
        - Economics 2 Principles of Economics - Macro
        - ES 3 Introduction to the Social and Cultural Environment
        - Linguistics 20 Language and Linguistics
        - Political Science 7 Introduction to International Relations
        - Psychology 1 Introduction to Psychology
        - Sociology 1 Introduction to Sociology
      - C:
        - Geography 7 Oil and Water — Gautier
        - Geography 8 Living with Global Warming — Gautier
        - Geography 20 Geography of Surfing — Sweeney
    - One statistics course from:
      - Communication 87 Statistical Analysis for Communication
      - PSTAT 5A Statistics
      - PSTAT 5E Statistics with Economics and Business Applications
      - Psychology 5 Introductory Statistics
    - Note: It is strongly recommended that you take Math 3A and 1 course in computer programming
  - **Upper Division Major: 40 upper division Geography units are required, distributed as follows:**
    - Area A
      - A1: 4 units from Physical Geography
        - Geog 102 Intro to Environmental Optics in Physical Geography — Roberts
        - Geog 104 Physical Geography of the World's Oceans — Washburn
        - Geog 110 Intro to Meteorology — Michaelsen
        - Geog 112 Environmental Hydrology — Loaiciga
        - Geog 114A Soil Science — Chadwick
        - Geog 114B Soil Genesis and Classification — Chadwick
        - Geog 116 Groundwater Hydrology — Loaiciga
        - Geog 133 Tropical Meteorology — Michaelsen
        - Geog 134 Earth System Science — Gautier
        - Geog 144 Forms, Process and Human Use of Rivers — Keller
        - Geog 162A Environmental Water Quality — Loaiciga
        - Geog 163 Ocean Circulation
          - Washburn
          - Siegel
        - Geog 165 Waves and Tides in the Ocean
          - Washburn
          - Siegel
        - Geog 167 Biogeography: The Study of Plant and Animal Distributions — Still
        - Geog 170 Intro to Vegetation Analysis — Still
        - Geog 175 Environmental Data Analysis — Roberts
      - A2: 4 units from Human Geography
        - Geog 101 Transportation Futures — Chruch
        - Geog 108 Urban Geography — Couclelis
        - Geog 109 Intro to Economic Geography — Sweeney
        - Geog 111A Transportation Planning and Modeling — Michaelsen
        - Geog 111B Transportation Modeling and Simulation — Michaelsen
        - Geog 141A Population Geography — Carr
        - Geog 141B Population and Development — Sweeney
        - Geog 141C California Population Analysis and Policy — Sweeney
        - Geog 146 Intro to Transportation Systems Planning — Church
        - Geog 153A Behavioral Geography — Montello
        - Geog 153B Introduction to Spatial Decision Making and Behavior
        - Geog 153C Environmental Perception and Cognition
        - Geog 153D Spatial Decisions in Retail — Church
        - Geog 153E Geography of Everyday Life
        - Geog 180 Geography of the Information Society — Couclelis
        - Geog 185A Geography of Planning and Policy Making — Couclelis
        - Geog 185B Environmental Issues and Location Decision Making — Church
        - Geog 185C Urban and Regional Modeling and Planning — Sweeney
        - Geog 185D Urban and Environmental Systems Analysis — Church
        - Geog 190 Location Theory and Modeling — Church
      - A3: 4 additional units from either A1 or A2 above
    - Area B: 8 units from Techniques Courses:
      - Geog 115A Geographic Photo Interpretation
        - Clarke
        - McFadden
      - Geog 115B Geographic Remote Sensing Techniques — Bookhagen
      - Geog 115C Intermediate Geographic Remote Sensing Techniques — Bookhagen
      - Geog 117 Research Methods in Geography — Montello
      - Geog 126 History of Cartography: Maps in Science and Society — Clarke
      - Geog 128 Analytical and Computer Cartography — Clarke
      - Geog 168 Field Studies in Biogeography — Still
      - Geog 172 Intermediate Geographical Data Analysis — Kyriakidis
      - Geog 176A Introduction to Geographical Information Systems
        - Clarke
        - Goodchild
        - Raubal
      - Geog 176B Technical Issues in Geographic Information Systems — Goodchild
      - Geog 176BL Lab in Geographic Information Systems I — Goodchild
      - Geog 176C GIS Design and Application — Raubal
      - Geog 183 Cartographic Design and Geovisualization — Raubal
      - Geog 184A Introduction to Cartographic Programming: Note: this class is being discontinued — Clarke
      - Geog 191 Intro to Optimization Models for Geographic Problems — Church
      - Geog 191L Lab in Optimization Models fr Geographic Problems — Church
      - Geog 193 Internship in Geography (max of 4 units toward the major for 193)
    - Area C: 8 units from Integrative and Regional Geography Courses:
      - Geog 135 Mock Environmental Summit — Gautier
      - Geog 135S Mock Environmental Summit (Summer) — Gautier
      - Geog 140 Environmental Issues in Human History — Roberts
      - Geog 148 California — Michaelsen
      - Geog 149 The California Channel Islands — Still
      - Geog 150 Geography of the U.S. — Montello
      - Geog 155 Geography of Latin America — Carr
      - Geog 158 Geography of the California Current — Siegel
      - Geog 159 Geography of Europe — Couclelis
      - Geog 182 Global Cities in the Information Age — Couclelis
      - Geog 161 World Agriculture, Food, and Population — Cleveland
      - Geog 169 Cultural and Biological Diversity of Food Plants — Cleveland
      - Geog 171BT Biotechnology, Food, and Agriculture — Cleveland
      - Geog 171FT Small-Scale Food Production — Cleveland
    - Area D: 12 Additional units from areas A-C to bring the total upper division units to 40 (any of those listed above)