INTRODUCTORY REQUIREMENTS

Calculus:
- MATH 11A (FWS) ___ OR MATH 19A (FWS) ___
- MATH 11B (FWS) ___ OR MATH 19B (FWS) ___

Advanced Mathematics:
- EART 111 (F) ___ (recommended) OR MATH 22 (S) ___ OR MATH 23A (FWS) ___

General Chemistry:
- CHEM 1A (FWS) ___ + CHEM 1B/M (FWS) ___ + CHEM 1C/N (FWS) ___

Geology:
- ONE from the following...
  - EART 5/L California Geology Laboratory (F) ___
  - EART 10/L Geological Principles Laboratory (W) ___
  - EART 20/L Environmental Geology Laboratory (S) ___

Biology:
- BIOE 20C (FWS) ___

Electives:
- Complete four elective courses (5+ credits each) from upper-division Earth Sciences or Ocean Sciences offerings.

Recommended Electives:
- EART 101/L Invertebrate Paleobiology (F) ___
- EART 102 Marine Geology (W) ___
- EART 105/L Elements of Field Geology/ Lab (FS) ___
- EART 111 Mathematics in the Earth Sciences (F) ___
- EART 116 Hydrology (S) ___
- EART 119 Introduction to Scientific Computing (W) ___
- EART 120/L Sedimentology and Stratigraphy (S) ___
- EART 121 The Atmosphere (W) ___
- EART 125 Statistics and Data Analysis in the Geosciences (W) ___
- EART 128 Isotopes (W) ___
- EART 130/L Magmas and Volcanoes Laboratory (S) ___
- EART 148 Glaciology (S) ___
- EART 172 Geophysical Fluid Dynamics (S) ___
- OCEA 101 (W) ___ OR OCEA 102 (*) ___

Recommended courses for this major are listed below.

Recommended Electives:
- EART 101/L Invertebrate Paleobiology (F) ___
- EART 102 Marine Geology (W) ___
- EART 105/L Elements of Field Geology/ Lab (FS) ___
- EART 111 Mathematics in the Earth Sciences (F) ___
- EART 116 Hydrology (S) ___
- EART 119 Introduction to Scientific Computing (W) ___
- EART 120/L Sedimentology and Stratigraphy (S) ___
- EART 121 The Atmosphere (W) ___
- EART 125 Statistics and Data Analysis in the Geosciences (W) ___
- EART 128 Isotopes (W) ___
- EART 130/L Magmas and Volcanoes Laboratory (S) ___
- EART 148 Glaciology (S) ___
- EART 172 Geophysical Fluid Dynamics (S) ___
- OCEA 101 The Marine Environment (W) ___
- OCEA 102 Oceans & Climates: Past, Present, & Future (*) ___
- OCEA 118 Marine Microbial Ecology (S) ___
- OCEA 120 Aquatic Chemistry: Principles & Applications (*) ___
- OCEA 130 Biological Oceanography (S) ___
- OCEA 200 Physical Oceanography
- OCEA 220 Chemical Oceanography
- OCEA 260 Data Analysis in the Ocean and Earth Sciences

DC Requirement:
- Two of the four required courses must be completed from courses that are part of the Earth Sciences Disciplinary Communication Curriculum:
  - EART 100 Vertebrate Paleontology (W) ___
  - EART 102 Marine Geology (*) ___
  - EART 104 Geologic Hazards (F) ___
  - EART 109 Elements of Field Geology (FS) ___
  - EART 120 Sedimentology and Stratigraphy (S) ___
  - EART 140 Geomorphology (W) ___
  - EART 146 Ground Water (W) ___
  - EART 148 Glaciology (S) ___
  - EART 150 Structural Geology (F) ___
  - EART 152 Tectonics (S) ___
  - EART 160 Planetary Sciences (F) ___
  - EART 188A Summer Field Internship (S) ___
  - EART 191 Climate Change Science and Policy (W) ___
  - EART 195 Senior Thesis (FWS) ___

NOTE: Courses may simultaneously satisfy both the upper-division elective and DC requirement.

COMPREHENSIVE REQUIREMENT OPTIONS

One from the following list of Senior Capstone options:
- Summer Senior Field: EART 188A (S) ___ + 188B (S) ___ (EART 109/L is a prerequisite)
- Senior Thesis: enroll in EART 195 (FWS) ___ in the quarter that the thesis will be completed (required)
- Graduate course or seminar: Must achieve grade of B or better; course must be 5-units and include written report ___
- EART 191 Climate Change Science & Policy (S) ___
- Internship: Must complete written report, may enroll in EART 198 (FWS) ___(Required)

NOTE: none of the above may count toward fulfilling an upper-division elective if used as a capstone.