EARTH SCIENCES B.S. - Ocean Sciences Concentration

INTRODUCTORY REQUIREMENTS

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

Advanced Mathematics: EART 111 (F) ___ OR MATH 22 (FWS) ___ 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 (S) ___
- EART 20/L Environmental Geology Laboratory (W) ___

Biology: BIOL 20A (FWS) ___ + BIOE 20B (FWS) ___

Organic Chemistry: CHEM 108A/L (FW) ___ + CHEM 108B/M (WS) ___ OR CHEM 112A/L (F) ___ + CHEM 112B/M (W) ___ + CHEM 112C/N (S) ___

Physics: PHYS 6A/L (FW) ___ + PHYS 6 B/M (WS) ___ OR PHYS 5A/L (F) ___ + PHYS 5B/M (W) ___

ADVANCED REQUIREMENTS

EART 110A/L Evolution of the Earth (F) ___
EART 110B/M Earth as a Chemical System (W) ___
EART 110C/N The Dynamic Earth (S) ___
OCEA 101 The Marine Environment (W) ___ OR OCEA 102 Marine Geology (F) ___
EART 190 Earth Science Mentorship (F) ___ (Optional)

Electives: FOUR from the following...
- EART 101/L The Fossil Record (F) ___
- EART 102 Marine Geology (F) ___
- EART 105 Coastal Geology (S) ___
- EART 107 Remote Sensing of the Environment (W) ___
- EART 109/L Elements Field Geology (FS) ___
- EART 111 Mathematics in the Earth Sciences (F) ___
- EART 116 Hydrology (*) ___
- EART 119 Introduction to Scientific Computing (W) ___
- EART 120/L Sedimentology and Stratigraphy (S) ___
- EART 121 The Atmosphere (*) ___
- EART 128 Isotopes: Fundamentals & Appl. in Earth & Marine Sciences (*) ___
- EART 130/L Magmas and Volcanos Laboratory (S) ___
- EART 148 Glaciology (S) ___
- EART 172 Geophysical Fluid Dynamics (W) ___
- CHEM 122 Principles of Instrumental Analysis (F) ___
- OCEA 101 The Marine Environment (W) ___
- OCEA 102 Oceans and Climates: Past, Present, and Future (*) ___
- OCEA 118 Marine Microbal Ecology (S) ___
- OCEA 120 Aquatic Chemistry: Principles and Applications (*) ___
- OCEA 130 Biological Oceanography (*) ___
- OCEA 200 Physical Oceanography (F) ___
- OCEA 220 Chemical Oceanography (W) ___
- OCEA 260 Intro. Data Analysis in the Ocean & Earth Sciences (S) ___

COMPREHENSIVE REQUIREMENT

Complete ONE of the following...
- Senior Field Internship EART 188A + 188B (EART 109/L is a prerequisite) ___ ___
- Senior Thesis ___
- One 5-unit graduate course (permission by instructor required) ___