EARTH SCIENCES B.S. - Ocean Sciences Concentration

2013/14

Name: ___________________________ Date: ___________________________

(Quarter offered: F=Fall, W=Winter, S=Spring, *=Not offered this year)

ID#: ___________________________

INTRODUCTORY REQUIREMENTS

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

Advanced Mathematics: EART 111 (F) ___ OR MATH 22 (WS) ___ OR MATH 23A (FWS) ___

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

Organic Chemistry: CHEM 108A/L (FW) ___ + CHEM 108B/M (WS) ___

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

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

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

ADVANCED REQUIREMENTS

EART 110A/L Evolution of the Earthy/Lab (F) ___
EART 110B/M Earth as a Chemical Systemy/Lab (W) ___
EART 110C/N The Dynamic Earthy/Lab (S) ___
EART 190 Earth Science Mentorship (F) ___ (Optional)

Ocean Sciences: ONE of the following...
- OCEA 101 Marine Environment (W) ___
- OCEA 102 Oceans & Climate: Past, Present, & Future (S) ___

Electives: FOUR upper-division electives, 5 or more credits each, chosen from EART or OCEA course offerings

Recommended Electives:
- EART 101/L Invertebrate Paleobiology/Lab (F) ___
- EART 102 Marine Geology (*) ___
- EART 105 Coastal Geology (F) ___
- EART 107 Remote Sensing of the Environment (W) ___
- EART 109/L Elements of Field Geology/ Lab (FS) ___
- EART 111 Mathematics in the Earth Sciences (F) ___
- EART 116 Hydrology (*) ___
- EART 119 Introduction to Scientific Computing (W) ___
- EART 120/L Sedimentology & Stratigraphy/Lab (S) ___
- EART 121 The Atmosphere (*) ___
- EART 128 Isotopes (W) ___
- EART 130/L Magma & Volcanos/Lab (S) ___
- EART 148 Glaciology (S) ___
- EART 172 Geophysical Fluid Dynamics (S) ___
- OCEA 101 The Marine Environment (W) ___
- OCEA 102 Oceans & Climate (S) ___
- OCEA 118 Marine Microbial Ecology (S) ___
- OCEA 120 Aquatic Chemistry (*) ___
- OCEA 130 Biological Oceanography (S) ___
- OCEA 200 Physical Oceanography (F) ___
- OCEA 220 Chemical Oceanography (W) ___
- OCEA 260 Data Analysis Ocean/Earth Sci (W) ___

DC Requirement:
- TWO of the four required electives must be from the following Earth Sciences Disciplinary Communication Curriculum...
- EART 100 Vertebrate Paleontology (W) ___
- EART 111 Mathematics in the Earth Sciences (F) ___
- EART 116 Hydrology (FS) ___
- EART 120 Sedimentology and Stratigraphy (S) ___
- EART 125 Stats/Data Analysis in Geo Sciences (*) ___
- 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 189/L Elements of Field Geology/ Lab (FS) ___
- EART 191 Climate Change Science and Policy (W) ___
- EART 195 Senior Thesis (FWS) ___
- EART 198 Internship (FWS) ___

NOTE: Courses may be used to satisfy both the elective and DC requirements

COMPREHENSIVE REQUIREMENT

ONE from the following list of Senior Capstone options...
- Summer Senior Field Internship: EART 188A (S)___ + 188B (S) ___ (EART 109/L is a prerequisite)
- Senior Thesis: Ocean science topic recommended, generally requires 3-quarter commitment, enroll in EART 195 (FWS) ___
- Graduate course or seminar: Must achieve grade of B or better; course must be 5-units and include written report ___
- EART 191 Climate Change & Policy (W) ___
- Internship: Must complete written report, may enroll in EART 198 (FWS) ___

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