

**EARTH SCIENCES B.S. - Environmental Geology Concentration****2015/16**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

ID#: \_\_\_\_\_

NOTE: Courses appearing in more than one category can fulfill only one requirement.

**INTRODUCTORY REQUIREMENTS****Calculus:** MATH 11A (FWS) \_\_\_ **OR** MATH 19A (FWS) \_\_\_  
MATH 11B (FWS) \_\_\_ **OR** MATH 19B (FWS) \_\_\_**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) \_\_\_ (recommended)

**Environmental Studies:** ENVS 25 (W) \_\_\_**Biology:** BIOE 20C (FWS) \_\_\_**Physics:** PHYS 6A/L (FWS) \_\_\_ + PHYS 6 B/M \_\_\_ (WS) (preferred)**OR** PHYS 5 A/L (F) \_\_\_ **OR** PHYS 5B/M \_\_\_ (W)**ADVANCED REQUIREMENTS**

EART 110A/L Evolution of the Earth (F) \_\_\_

EART 110B/M Earth as a Chemical System (W) \_\_\_

EART 190 Earth Science Mentorship (F) \_\_\_ (One Credit; Optional)

**Electives:** Complete six upper-division elective courses (5+ credits each) Earth Sciences or Ocean Sciences courses. Recommended courses are listed below.**Environmental Electives:** Two 5 unit upper division courses with environmental topics from the following...

BIOE, BIOL, CHEM, EART, ENVS, METX, OCEA \_\_\_ \_\_\_

**Recommended Electives:**

EART 100/L Vertebrate Paleontology (W) \_\_\_

EART 101/L Invertebrate Paleobiology (F) \_\_\_

EART 102 Marine Geology (\*) \_\_\_

EART 104 Geologic Hazards (F) \_\_\_

EART 105 Coastal Geology (W) \_\_\_

EART 107 Remote Sensing of the Environment (F) \_\_\_

EART 109/L Elements of Field Geology/ Lab (FS) \_\_\_

EART 110C/N The Dynamic Earth (S) \_\_\_

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 125 Statistics and Data Analysis in the Geosciences (W) \_\_\_

EART 128 Isotopes (\*) \_\_\_

EART 140/L Geomorphology (W) \_\_\_

EART 142 Engineering Geology (\*) \_\_\_

EART 146 Ground Water (S) \_\_\_

EART 148 Glaciology (W) \_\_\_

EART 150/L Structural Geology (F) \_\_\_

**DC Requirement:**

Two courses must be completed from that are part of the Earth Sciences Disciplinary Communication Curriculum...

EART 100 Vertebrate Paleontology (W) \_\_\_

EART 101 Invertebrate Paleobiology (F) \_\_\_

EART 102 Marine Geology (W) \_\_\_

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 (S) \_\_\_

EART 148 Glaciology (W) \_\_\_

EART 150 Structural Geology (F) \_\_\_

EART 152 Tectonics (W) \_\_\_

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 &amp; Policy (S) \_\_\_ (or other approved senior seminar course)

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.\*****\*except for DC**