

EARTH SCIENCES B.S. - Environmental Geology Concentration

2019-20

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) ___

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, Su) ___

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) ___

Electives: Complete six upper-division elective courses (5+ credits each) from Earth Sciences or Ocean Sciences. Recommended courses are listed below.

Environmental Electives: Two of the six 5 unit upper-division elective courses may come from BIO, BIOL, CHEM, ENVS, or METX if they cover environmental topics and are **pre-approved** by the EPS adviser. _____, _____

Recommended Electives:

EART 100/L Vertebrate Paleontology (W) ___
EART 101/L Invertebrate Paleobiology (F) ___
EART 102 Marine Geology (W) ___
EART 104 Geologic Hazards (F) ___
EART 105 Coastal Geology (W) ___
EART 107 Remote Sensing of the Environment (*) ___
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 (F) ___
EART 119 Introduction to Scientific Computing (F) ___
EART 120/L Sedimentology and Stratigraphy (S) ___
EART 121 The Atmosphere (F) ___
EART 125 Statistics and Data Analysis in the Geosciences (W) ___
EART 128 Isotopes (*) ___
EART 140/L Geomorphology (W) ___
EART 142 Engineering Geology (S) ___
EART 146 Ground Water (S) ___
EART 148 Glaciology (*) ___
EART 150/L Structural Geology (F) ___

DC Requirement:

Two of the six required electives must be from the Earth Sciences Disciplinary Communication Curriculum list:

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 160 Planetary Sciences (F) ___
EART 189B Summer Field Internship (S) ___
EART 191A Climate Change Science and Policy (*) ___
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:

EART 189A (S) ___ **AND** EART 189B (Summer) ___ Summer Senior Field (EART 109/L, 110A/L and 110B/M are prerequisites)
EART 195 Senior Thesis (FWS) ___ enroll in 195 the quarter that the thesis will be completed (required)
EART 191A Climate Change Science & Policy (*) ___ (or other approved senior seminar course)
EART 191B Planetary Capstone (*) ___ (or other approved senior seminar course)
EART 191C Practical Geophysics (F) ___ (or other approved senior seminar course)
EART 198 Internship (FWS) ___ Must complete written report

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