

EARTH SCIENCES B.S. - Geology Concentration

Name: _____

2019-20

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

Date: _____

ID#: _____

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 (W) ___ **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) ___

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 110C/N The Dynamic Earth (S) ___

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

Two courses from the following list of Earth Sciences offerings: EART 120/L, EART 130/L, EART 140/L, or EART 150/L.

Three additional elective courses (5+ credits each) from upper-division Earth sciences or ocean sciences offerings.

EART 198 may not be used to satisfy this requirement.

Recommended Electives:

EART 100/L Vertebrate Paleontology (W) ___

EART 101/L Invertebrate Paleobiology (F) ___

EART 102 Marine Geology (W) ___

EART 104 Geologic Hazards (W) ___

EART 105 Coastal Geology (W) ___

EART 107 Remote Sensing of the Environment (*) ___

EART 116 Hydrology (F) ___

EART 119 Introduction to Scientific Computing (F) ___

EART 120/L Sedimentology and Stratigraphy (S) ___

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) ___

EART 152 Tectonics (W) ___

DC Requirement:

Two of the five 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 (*) ___

EART 150 Structural Geology (F) ___

EART 160 Planetary Sciences (F)

EART 189A 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:

Summer Senior Field: EART 189A (S)___ + 189B (Summer) ___ (EART 109/L, 110A/L and 110B/M are prerequisites)

NOTE: EART 189A and 189B may not count as upper-division electives.