EARTH SCIENCES B.S. 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)__

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 6B/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) ___

Electives: Complete six elective courses (5+ credits each) from upper-division Earth Sciences or Ocean Sciences offerings. You must complete two courses from the Lab/Field Intensive course list and two courses from the DC requirement course list.

NOTE: Courses may satisfy more than one requirement.
NOTE: 5 credits of internship (EART 198) or Independent Study (EART 199) may be substituted for 1 upper division elective

Lab/Field Intensive Requirement
TWO of the six required electives must be from lab/field intensive list:
EART 107 Remote Sensing of the Environment (*) ___
EART 109/L Elements of Field Geology (FS) ___
EART 116 Hydrology (F) ___
EART 119 Introduction to Scientific Computing (F) ___
EART 120/L Sedimentology and Stratigraphy Lab (S) ___
EART 125 Statistics and Data Analysis in the Geosciences (W) ___
EART 130/L Magmas and Volcanoes Laboratory (*) ___
EART 140/L Geomorphology (W) ___
EART 142 Engineering Geology for e Scientists (S) ___
EART 146 Ground Water (S) ___
EART 148 Glaciology (*) ___
EART 150/L Structural Geology (F) ___
EART 189A Summer Field Internship (S) ___
EART 189B Geographic Information Systems w/ Applications (Su) ___

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 (*) ___
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) ___

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.