EARTH SCIENCES B.S. with Planetary Sciences concentration

Name: ___________________________________________    Date: __________________________

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

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

INTRODUCTORY REQUIREMENTS

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

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

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 (S) ___ (preferred)
- EART 20/L Environmental Geology Laboratory (W) ___

Astronomy: ONE from the following...
- ASTR 14 Observational Astronomy (*) ___
- ASTR 16 Astrobiology: Life in the Universe (F) ___
- ASTR 18 Planets and Planetary Systems (S) ___

Physics: PHYS 5A/L (F) ___ + PHYS 5B/M (W) ___ + PHYS 5C/N (S) ___ (preferred)
+ PHYS 5D (recommended) ___
OR PHYS 6A/L (FW) ___ + PHYS 6 B/M (WS) ___ + PHYS 6C/N (FS) ___

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 119 Scientific Computing (W) ___
EART 160 Planetary Science (F) ___
EART 190 Earth Science Mentorship (F) ___ (Optional)

Topical Electives: ONE from the following...
- EART 162 Planetary Interiors (S) ___
- EART 163 Planetary Surfaces (*) ___
- EART 164 Planetary Atmospheres (*) ___

General Electives: THREE from the following...
- EART 107 Remote Sensing of the Environment (W) ___
- EART 109/L Field Geology Laboratory (FS) ___
- EART 116 Hydrology (*) ___
- EART 117/L Paleomagnetism Laboratory (S) ___
- EART 121 The Atmosphere (*) ___
- EART 128 Isotopes: Fundamental & Application in Earth & Marine Sciences (*) ___
- EART 130/L Magmas and Volcanoes Laboratory (S) ___
- EART 140/L Geomorphology Laboratory (W) ___
- EART 148 Glaciology (S) ___
- EART 150/L Structural Geology Laboratory (F) ___
- EART 152 Active Tectonics (S) ___
- EART 162 Planetary Interiors(S) ___
- EART 163 Planetary Surfaces (*) ___
- EART 164 Planetary Atmospheres (*) ___
- EART 172 Geophysical Fluid Dynamics (W) ___
- EART 209 Solid Earth Geochemistry (*) ___
- EART 210 Overview of Stellar and Planetary Formation and Evolution (*) ___
- ASTR 112 Physics of Stars (S) ___
- ASTR 118 Physics of Planetary Systems (*) ___
- MATH 130 Celestial Mechanics (*) ___

COMPREHENSIVE REQUIREMENTS

ONE of the following ...
- Senior Field Internship EART 188A (S)___ + 188B (S) ___
- Senior Thesis ___
- ONE 5-unit graduate course or seminar

PHYSICAL & BIOLOGICAL SCIENCES

UNDERGRADUATE AFFAIRS

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