EARTH SCIENCES B.S. with Planetary Sciences concentration  2011/12

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

Advanced Mathematics:  MATH 22 (WS) ___  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 (*) ___

Physics:  PHYS 5A/L (F) ___ + PHYS 5B/M (W) ___ + PHYS 5C/N (S) ___ (preferred)
   + PHYS 5D (F) (recommended) ___
   OR  PHYS 6A/L (FWS) ___ + PHYS 6B/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 (W) ___
   EART 163 Planetary Surfaces (*) ___
   EART 164 Planetary Atmospheres (S) ___

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 Volcanos 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 (W) ___
   EART 163 Planetary Surfaces (*) ___
   EART 164 Planetary Atmospheres (S) ___
   EART 172 Geophysical Fluid Dynamics (WS) ___
   EART 209 Solid Earth Geochemistry (*) ___
   EART 210 Overview of Stellar and Planetary Formation and Evolution (*) ___
   ASTR 112 Physics of Stars (F) ___
   ASTR 118 Physics of Planetary Systems (W) ___
   MATH 130 Celestial Mechanics (*) ___

COMPREHENSIVE REQUIREMENTS

ONE from the following ...
   Senior Field Internship EART 188A (S) ___ + 188B (S) ___
      (EART 109/L is a prerequisite)
   ONE 5-unit graduate course or seminar ___
   Senior Thesis ___