Lower-Division Requirements

Math  20A_____  20B_____  20C_____  20D_____
Chemistry 6A______  6B______  6C______
Physics 2A______ 2B______ 2C______ or 4A______ 4B______ 4C______
Biology 3 (BILD 3)____
SIO 50*____

Group A: Earth Science Upper-Division Core Requirements (all courses are required):

SIO 100 ____  Introduction to Field Methods
SIO 102 ____  Introduction to Geochemistry
SIO 103 ____  Introduction to Geophysics
SIO 104 ____  Paleobiology and History of Life*

Group B: Upper-Division Earth Science Restricted Electives (choose at least 3 of the following):

SIO 105 ____  Sedimentology and Stratigraphy
SIO 106 ____  Introduction to Hydrogeology
SIO 113 ____  Introduction to Computational Earth Science
SIO 120 ____  Introduction to Mineralogy
SIO 141 ____  Chemical Principles of Marine Systems
SIO 144 ____  Introduction to Isotope Geochemistry
SIO 152 ____  Petrology and Petrography
SIO 160 ____  Introduction to Tectonics
SIO 162 ____  Structural Geology
SIO 182 ____  Environmental & Exploration Geophysics

Group C: Upper-Division Restricted Electives: (choose at least 5 of the following):
Student may use any additional course(s) from the Earth Science Restricted Electives list (Group B, above) as a Group C elective

SIO 101____ California Coastal Oceanography
SIO 110____ Introduction to GIS & GPS for Scientists
SIO 111____ Introduction to Ocean Waves
SIO 112____ Urban Landscapes
SIO 115____ Ice and the Climate System
SIO 117____ The Physical Basis of Global Warming
SIO 119____ Physics and Chemistry of the Oceans
SIO 135____ Satellite Remote Sensing
SIO 138____ The Coral Reef Environment
SIO 143____ Ocean Acidification
SIO 148____ Evolution of the Earth’s Biosphere*
SIO 150____ Physics & Chemistry of Planetary Interiors
SIO 155____ Whole Earth Geochemistry
SIO 170____ Introduction to Volcanology
SIO 172____ Physics of the Atmosphere
SIO 180____ Communicating Science to Informal Audiences
SIO 186____ Interactions between Humans and the Natural Environment
SIO 199____ Independent Study

CHEM 173____ Atmospheric Chemistry
CHEM 120A____ Inorganic Chemistry
CHEM 127____ Physical Chemistry
CHEM 140A____ Organic Chemistry I
CHEM 140B____ Organic Chemistry II
CHEM 171____ Environmental Chemistry I
CHEM 172____ Environmental Chemistry II

PHYSICS 100A____ Electromagnetism I
PHYSICS 100B____ Electromagnetism II
PHYSICS 100C____ Electromagnetism III
PHYSICS 105A____ Mathematical and Comp Physics I
PHYSICS 105B____ Mathematical and Comp Physics II
PHYSICS 110A____ Mechanics I
PHYSICS 110B____ Mechanics II
PHYSICS 121____ Experimental Techniques
MAE 131A____ Solid Mechanics I

Courses marked with an “*” indicate 6 unit courses. All other SIO courses are 4 units.

2-20-14