2016-2017 EARTH SCIENCES

Lower-Division Requirements

Lower-Division Requirements			
Math	20A 20B :	20C 20D	
Chemistry	20A 20B	20С 20D 6С	
Physics	2A 2B	6C 2C or 4A4B	4C
Biology	BILD 3	20 OF INT ID	
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		to Geophysics
SIO 104		Paleobiolog	y and History of Life*
Group B: Upper-Division Earth Science Restricted Electives (choose at least 3 of the following):			
SIO 105		Sadimantala	ary and Strationarhy
SIO 105 SIO 106			gy and Stratigraphy to Hydrogeology
SIO 100 SIO 113			
SIO 113 SIO 120			to Mineralogy
SIO 120 SIO 141	 -		inciples of Marine Systems
SIO 141 SIO 144			to Isotope Geochemistry
SIO 152	Petrology and Petro		
SIO 160		~	to Tectonics
SIO 162		Structural G	
SIO 182			tal & 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			
			CHEM 172 Atmosphanic Chamistan
	_Introduction to Paleocl	<u> </u>	CHEM 173Atmospheric Chemistry CHEM 120A Inorganic Chemistry
SIO 110Introduction to GIS & GPS for Scientists SIO 111Introduction to Ocean Waves			CHEM 120AInorganic Chemistry CHEM 127Physical Chemistry
SIO 111Introduction to Ocean waves SIO 115Ice and the Climate System			CHEM 140AOrganic Chemistry I
SIO 117Re and the Chinate System SIO 117The Physical Basis of Global Warming			CHEM 140A Organic Chemistry I CHEM 140B Organic Chemistry II
SIO 119 Physics and Chemistry of the Oceans			CHEM 171 Environmental Chemistry I
SIO 135 Satellite Remote Sensing			CHEM 172Environmental Chemistry II
SIO 138Sateline Renote Sensing CHEW 172Environmentar Chemistry if			
SIO 143 Ocean Acidification PHYSICS 100A Electromagnetism I			
SIO 150 Physics & Chemistry of Planetary Interiors			PHYSICS 100BElectromagnetism II
SIO 155Whole Earth Geochemistry			PHYSICS 100C Electromagnetism III
SIO 170Introduction to Volcanology			PHYSICS 105AMathematical and Comp Physics I
SIO 171Introduction to Physical Oceanography			PHYSICS 105BMathematical and Comp Physics II
SIO 172Physics of the Atmosphere			PHYSICS 110A Mechanics I
SIO 173Dynamics of the Atmosphere and Climate			PHYSICS 110BMechanics II
SIO 180Communicating Science to Informal			PHYSICS 110BMechanics II PHYSICS 121Experimental Techniques
Audiences			MAE 131ASolid Mechanics I
SIO 199Independent Study			