

ENVIRONMENTAL SYSTEMS / EARTH SCIENCES DEGREE CHECK LIST 2020/2021

LOWER-DIVISION CORE REQUIREMENTS

(All courses must be taken for a Letter Grade)

Math 20A _____ 20B _____ 20C _____ 20D _____	Economics _____	ECON 1 _____
Chemistry 6A _____ 6B _____ 6C _____	Biology _____	BILD 3 _____
Physics 2A _____ 2B _____ 2C _____	SIO _____	SIO 50 _____

UPPER-DIVISION REQUIREMENTS

Environmental Systems 101 _____	Environmental Biology	
Environmental Systems 102 _____	The Solid and Fluid Earth	
Environmental Systems 103 _____	Environmental Challenges: Science and Solutions	
Economics 131 _____	Economics of the Environment (Econ 2 prerequisite must be waived by Econ dept.)	
Political Science 160AA _____	Introduction to Policy Analysis (PoliSci 10 or 11 prerequisite waived)	
SIO 102 _____	Introduction to Geochemistry	

Upper-division Earth Sciences Restricted Electives: Students must complete a minimum of three courses selected from the following list:

SIO 100 _____ Introduction to Field Methods	SIO 135 _____ Satellite and Remote Sensing
SIO 103 _____ Introduction to Geophysics	SIO 144 _____ Intro to Isotope Geochemistry
SIO 104 _____ Paleobiology and History of Life	SIO 150 _____ Whole Earth Geochemistry
SIO 105 _____ Sedimentology and Stratigraphy	SIO 152 _____ Petrology and Petrography
SIO 106 _____ Introduction to Hydrogeology	SIO 160 _____ Introduction to Tectonics
SIO 110 _____ Intro to GIS and GPS for Scientists	SIO 162 _____ Structural Geology
SIO 120 _____ Introduction to Mineralogy	

Upper-division Electives: Students must complete a minimum of two courses selected from the following list: Students may use any additional course(s) from the Earth Science Restricted Electives list (above) as an upper division elective.

SIO 101 _____ California Coastal Oceanography	SIO 143 _____ Ocean Acidification
SIO 108 _____ Introduction to Paleoclimatology	SIO 164/ANTH 164 _____ Maritime Archeology
SIO 109 _____ Bending the Curve: Climate Change	SIO 166/ANTH 166 _____ Environmental Archaeology
SIO 111 _____ Introduction to Ocean Waves	SIO 170 _____ Introduction to Volcanology
SIO 113 _____ Intro to Computational Earth Sciences	SIO 172 _____ Physics of the Atmosphere
SIO 115 _____ Ice and the Climate System	SIO 182 _____ Environmental and Exploration Geophysics
SIO 117 _____ The Physical Basis of Global Warming	Chemistry 171 _____ Environmental Chemistry I
SIO 119 _____ Physics and Chemistry of the Ocean	Chemistry 172 _____ Environmental Chemistry II
SIO 138 _____ Coral Reef Environments	Chemistry 173 _____ Atmospheric Chemistry
SIO 141 _____ Chemical Principles of Marine Systems	

Other courses may be substituted by petition

ENVIRONMENTAL SYSTEMS SENIOR INTERNSHIP AND PROJECT (required of all majors)

ESYS 187A _____	Integrative Project Qtr 1 (4 units)
ESYS 187B _____	Integrative Project Qtr 2 (4 units)
ESYS 187C _____	Senior Seminar (4 units)