

**REQUIREMENTS FOR THE BS DEGREE WITH A MAJOR IN:**

*Quantitative Environmental Science*

September 2018

**GENERAL EDUCATION REQUIREMENTS**

Category		# Credits	Specific Courses Required	Other
FirstBridge		8	Course offerings vary by semester.	Freshmen must take during their first semester.
Speaking the World	English	Up to 8	EN1010: College Writing EN2020: Writing & Criticism	Minimum grade of "C" required in each course. Placement above EN1010 or EN1020 or transfer from English-speaking university is possible.
	French	Up to 8	FR1100: Elementary French & Culture I FR1200: Elementary French & Culture II	Minimum grade of "C" required in each course. Placement above FR1100 or FR1200 is possible
Comparing Worlds		4	Courses coded GE100,GE115	Must simply pass course. Transfer is possible.
Mapping the World		4	Courses coded GE110,GE115	Must simply pass course. Transfer is possible.
Comparing Worlds OR Mapping the World		4	Courses coded GE100, GE110, GE115	Must simply pass course. Transfer is possible.
Modeling the World	Math	4	Any course coded GE120	Must simply pass course. Placement above or transfer is possible.
	Science	4	Any course coded GE130	Must simply pass course. Transfer is possible.

**MAJOR REQUIREMENTS – 49 credits (Minimum grade of "C-" required in each course.)**

Course Number	Course Name ( <i>prerequisites</i> )
SC1020	Environmental Science ( <i>MA1005 or above</i> )
MA1020	Applied Statistics I ( <i>MA0900 or placement above</i> )
MA1030	Calculus I ( <i>MA1002 or MA1025 or placement above</i> )
CS1040	Introduction to Computer Programming – 5 credits
MA2041	Linear Algebra ( <i>MA1030</i> )
SC4095	Senior Seminar
<b>Select two courses from the following list (may be taken without the lab component)</b>	
SC1040	Energy & the Environment ( <i>MA1005 or above</i> )
SC1050	Climate & Climate Change
SC1060	Natural & Unnatural Disasters ( <i>MA1005 or above</i> )
SC1070	Ocean Environment
<b>Select both courses in one of the groups below (or one from each with approval)</b>	
<i>Dynamical Systems</i>	
MA2030	Calculus II ( <i>MA1030</i> )
MA3100	Differential Equations ( <i>MA1030</i> )
<i>Environmental Decision Support Systems</i>	
MA2007	Operations Research ( <i>[MA1010 or above] or CS1041</i> )
MA4030	Quantitative Decision Making ( <i>MA1020 + BA3070</i> )
<i>Data Analysis</i>	
MA2020	Applied Statistics II ( <i>MA1020</i> )
MA3066	Multivariate Statistical Analysis ( <i>MA1020</i> )
<b>Select two courses from the following list</b>	
	Any course coded CS, MA or SC
	A topics, project or seminar class or internship related to the environment subject to approval
PL1021	Ethical Inquiry: Problems & Paradigms
PO2012	Introduction to Political Geography & Geopolitics
PL2041	Environmental Ethics
BA3012	Business Ethics & Corporate Social Policy ( <i>BA1020 + BA2020 + junior standing</i> )
PO3033	Politics of the Environment ( <i>PO1011 or junior standing</i> )
PO3035	Waters of the Globe ( <i>PO1011 or junior standing</i> )
EC3043	Economics of Sustainable Development ( <i>EC2010 + EC2020</i> )
CM3046	Media Law, Policy & Ethics

**FREE ELECTIVES:** Any courses desired – must complete a total of 128 credit hours to graduate.

**HONORS:** Students earning a GPA of 3.5 or above in the math and sciences courses are eligible for the honors program.