

# BACHELOR OF SCIENCE, MAJOR IN ENVIRONMENT SCIENCE (WATER RESOURCES)

Code	Title	Hours
<b>Bachelor of Science, Major in Environmental Science (Water Resources)</b>		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) <sup>1</sup>		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government) <sup>1,3</sup>		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1401	Environmental Science <sup>4</sup>	4
BIOL 1411 or BIOL 1413	General Botany <sup>4</sup> General Zoology	4
BIOL/GEOG 2320	Sustainability and Environment	3
BIOL 3409	General Ecology	4
BIOL 4330	Aquatic Biology <sup>5</sup>	3
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
ENGL 3330	Intro to Technical Writing	3
<b>Select two of the following:</b>		8
GEOG 1401	Weather and Climate	
GEOG 1403	Physical Geology	
GEOG 1405	Geologic Hazards & Resources	
GEOG 2464	Intro to Geographic Info Sys	4
GEOG 4330	Hydrology and Water Resources	3
GEOG 4331	Conservation of Natural Res	3
GEOG 4361 or GEOG 4365	Geographic Information Systems for Public Health Applied Geographic Info Systems	3
GEOG 4432 or GEOG 4468	Geomorphology Remote Sensing	4
GEOG 3326	Environmental Geology	3
GEOG 4304	Geochemistry	3
GEOG 4426	Hydrogeology	4
MATH 1420	Calculus I <sup>6</sup>	4
<b>Select one from the following: <sup>7</sup></b>		3-4
MATH 1430	Calculus II	
BIOL 4374	Biostatistics	
MATH/STAT 3379	Statistical Methods in Practice	
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 3440	Soil Science	4
POLS 3395	Environmental Policy	3
<b>Proscribed Electives</b>		
<b>Select two or three of the following:</b>		8
AGET 3383	Soil & Water Conservation Engr	

COMS 3373	Environmental Communication
ECON 3352	Energy & Environmental Econ
ENVR 4361	Environ Sci Field Exp
GEOG 3301	Environmental Geography
GEOG 3310	Sustainable Development
GEOG 4333	Field Studies
GEOG 4367	GIS Programming
GEOG 4432	Geomorphology
GEOG 4468	Remote Sensing
GEOL 4400	Stratigraphy & Sedimentation
HIST 3395	American Environmental History
HLTH 4390	Environmental Health
PLSC 4330	Soil Fertility Mgt Fertilizers
POLS 3302	Introduction to Public Policy
SOCI 4337	Environment And Society

Total Hours 120-121

- 1 SOCI 2319 should be taken if SOCI 4337 is desired.
- 2 GEOG 1300 should be taken if GEOG 3310 is desired.
- 3 ECON 2300 ECON 2301, or ECON 2302 should be taken if ECON 3352 is desired.
- 4 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
- 5 Students may choose from other Environmental Science relevant upper-level BIOL electives (i.e., Wetlands Ecology, Stream Bio-geochemistry, as Special Topics).
- 6 Satisfies 3 semester credit hours of the Core Curriculum requirement for Component Area II (Mathematics) and 1 semester credit hour for Core Curriculum Component Area XI (Component Area Option).
- 7 It is strongly recommended that students interested in groundwater take MATH 1430; students interested in surface water take MATH 3379 or BIOL 4374; and students wishing to take both levels of Calculus and a Statistics course may apply the third course as an elective.