

Name: _____

Date: _____

**Curriculum and Recommended Schedule: B.S. degree in EARTH & ENVIRONMENTAL SCIENCES
with Concentration in ENVIRONMENTAL SCIENCES**

FALL Semester	First Year	SPRING Semester	
ENGL 1101 English Composition	3	ENGL 1102 Academic Writing	3
MATH 1241 Calculus I	3	MATH 1242 Calculus II OR STAT 12xx	3
CHEM 1251 General Chemistry I	3	CHEM 1252 General Chemistry II	3
CHEM 1251L General Chemistry I Lab	1	CHEM 1252L General Chemistry II Lab	1
ESCI 1101 Earth Science-Geography	3	GEOL 1200 Physical Geology	3
ESCI 1101L Earth Science-Geography Lab	1	GEOL 1200L Physical Geology Lab	1
Fall Semester Total	14	Spring Semester Total	14

Second Year			
FORL 1201 (or proficiency)	3	FORL 1202 (or proficiency)	3
LBST 11xx Arts and Society	3	LBST 2101 Western Culture and History	3
BIOL 2120 General Biology I	3	ESCI 2101 Environmental Dilemma	3
ESCI 2210 Field Meth. in Earth & Env. Sci.	3	BIOL 2130 General Biology II	3
ESCI 3101 Global Environmental Change	3	BIOL 2130L General Biology II Lab	2
General Elective	1	General Elective	1
Fall Semester Total	16	Spring Semester Total	15

Third Year			
LBST 2102 Global Connections	3	LBST 22xx Liberal Studies Elective	3
BIOL 3144 Ecology	3	GEOL 3105 The Earth's Min. Resources OR	3
BIOL 3144L Ecology Lab (W) #	1	GEOL 3190 Environmental Geology	3
G&ES Elective	3	GEOG 3120 Fundamentals of GIS	4
General Elective	4	G&ES Elective	3
		Social Science Elective*	3
Fall Semester Total	14	Spring Semester Total	16

Fourth Year			
GEOG 3190 Biogeography (W) #	3	ESCI 4600 Earth Science Seminar (O)	1
GEOG 4131 Environmental Modeling with GIS	4	GEOG 4215 Urban Ecology	3
ESCI 3205 Water Resources	3	General Elective	4
General Elective	3	General Elective	4
General Elective	3	General Elective	3
Fall Semester Total	16	Spring Semester Total	15

#Students are required to have a minimum of 6 hours of writing intensive credit. Required Writing Intensive courses listed above account for only 4 credit hours. Students must take an additional 2 credits of writing intensive as either a Departmental or General Elective

ESCI BS Requirement	Red
General Education	Red
Requirement G&ES Dept.	Bold

G&ES Elective hours	3
BS ES - ATMOS. CONC. Degree hours	61
CLAS Required Degree total hours	120

Course	
Examples of Supportive G&ES Electives - Fall Offerings	
BIOL 3215 Economic Botany (W)	3
BIOL 4162 Environmental Biotechnology I	3
ESCI 3105 Oceanography	3
ESCI 4140 Hydrologic Processes	4
ESCI 4170 Fundamentals of Remote Sensing	4
ESCI 4210 Soil Science	4
ESCI 4222 Watershed Science	3
GEOG 4216 Landscape Ecology	3
GEOL 3120 Geochemistry	3
GEOL 3120L Geochemistry Lab	1
GEOL 3124 Sedimentology (W)	4
GEOL 4105 Geomorphology	3
GEOL 4105L Geomorphology Lab	1
GEOL 4120 Geologic Mapping and Interpretation	4
GEOL 4140 Coastal Geology	3
METR 4240 Boundary-Layer Meteorology	3

Course	
Examples of Supportive G&ES Electives - Spring Offerings	
BIOL 3144 Ecology	3
BIOL 3144L Ecology Lab	1
BIOL 4163 Environmental Biotechnology II	3
CEGR 3143 Hydraulics and Hydrology	3
ESCI 3170 Environmental Quality Management	3
ESCI 3180 Environmental Impact Analysis	3
ESCI 4155 Fluvial Processes	4
ESCI 4160 Contaminant Transport	3
ESCI 4180 Digital Image Processing in Rem. Sens.	4
ESCI 4233 Geoenvironmental Site Characterization	4
GEOG 3215 Environmental Planning (W)	3
GEOG 3250 World Food Problems	4
GEOL 3115 Mineralogy	4
GEOL 4145 Fundamentals of Hydrogeology (W)	4
GEOL 4165 Aqueous Geochemistry	4
GEOL 4410 Applied Soil Science	4
METR 3250 Dynamic Meteorology	1
METR 3252 Weather Analysis Lab	3
METR 4150 Applied Climatology (W)	3
METR 4220 Atmospheric Chemistry	

Note: ESCI/GEOL/GEOG/METR 3000-4000 Topics courses may be accepted for elective credit in the major with prior approval.

We recommend students take the following elective courses if they are interested in pursuing an advanced degree

Relevant Field Experience Course	3-6
ESCI 4800/METR 4800 Independent Study	1-3
MATH 2241 Calculus III	3

*One of the following courses: ANTH 1101, ECON 1101, ECON 2101, GEOG, 1105, POLS 1110, or SOCY 1101