

Name: _____

Date: _____

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

FALL Semester	First Year	SPRING Semester	
ENGL 1101 English Composition	3	ENGL 1102 Academic Writing	3
STAT 12xx Statistics	3	Social Science Elective*	3
CHEM 1251 General Chemistry I	3	CHEM 1252 General Chemistry II + Lab OR	4
CHEM 1251L General Chemistry I Lab	1	PHYS 1101 Introductory Physics I + Lab	3
ESCI 1101 Earth Science-Geography	3	GEOL 1200 Physical Geology	1
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
MATH 1241 Calculus I	3	Writing (W) Comm Elective	3
ESCI 3105 Oceanography	3	MATH 1242 Calculus II OR	3
ESCI 2210 Field Meth. in Earth & Env. Sci.	3	STAT 2223 Elements of Statistics II	3
General Elective	1	ESCI 2101 Environmental Dilemma	3
Fall Semester Total	16	Spring Semester Total	15

Third Year			
LBST 2102 Global Connections	3	LBST 22xx Liberal Studies Elective	3
ESCI 3101 Global Environmental Change	3	GEOG 3120 Fundamentals of GIS	4
ESCI 3205 Water Resources	3	ESCI 4155 Fluvial Processes	4
General Elective	3	General Elective	3
General Elective	2	General Elective	2
Fall Semester Total	14	Spring Semester Total	16

Fourth Year			
ESCI 4140 Hydrologic Processes	4	ESCI 4600 Earth Science Seminar (O)	1
G&ES Elective	4	ESCI 4222 Watershed Science	3
General Elective	4	GEOL 4145 Fundamentals of Hydrogeology (W)	4
General Elective	3	General Elective	4
General Elective	1	General Elective	3
Fall Semester Total	16	Spring Semester Total	15

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

G&ES Elective hours	4
BS ES - ATMOS. CONC. Degree hours	60
CLAS Required Degree total hours	120

Examples of Supportive G&ES Electives - Fall Offerings

BIOL 3215 Economic Botany (W)	3
BIOL 4162 Environmental Biotechnology I	3
ESCI 4180 Digital Image Processing in Rem. Sens.	4
ESCI 4210 Soil Science	4
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

Examples of Supportive G&ES Electives - Spring Offerings

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 4160 Contaminant Transport	3
ESCI 4233 Geoenvironmental Site Characterization	4
GEOG 3215 Environmental Planning (W)	3
GEOG 3250 World Food Problems	3
GEOG 4131 Environmental Modelling with GIS	4
GEOL 3115 Mineralogy	4
GEOL 4165 Aqueous Geochemistry	4
GEOL 4410 Applied Soil Science	4
METR 3250 Dynamic Meteorology	4
METR 3252 Weather Analysis Lab	1
METR 4150 Applied Climatology (W)	3
METR 4220 Atmospheric Chemistry	3

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