

Texas A & M University-Corpus Christi

Curriculum Sheet for 2019-2020 Catalog

Degree: **Bachelor of Science**
 Major: **Environmental Science**
 Concentration: **Earth System Science**

<u>UNIVERSITY CORE CURRICULUM:</u>		<u>HOURS</u>	<u>PREREQUISITES</u>
_____	COMM 1311	Foundations of Communications	3
_____	ENGL 1302	Writing and Rhetoric	3
_____	See Catalog	Mathematics	3
_____	See Catalog	Life and Physical Sciences	6
_____	See Catalog	Language, Philosophy, or Culture	3
_____	See Catalog	Creative Arts	3
_____	HIST 1301	US History to 1865	3
_____	HIST 1302	US History since 1865	3
_____	POLS 2305	US Government and Politics	3
_____	POLS 2306	State and Local Government	3
_____	See Catalog	Social and Behavioral Science	3
_____	See Catalog	Component Area	6
<u>FOUNDATION COURSES - 32 hours</u>			
_____	ESCI 1401 (core)	Intro to Environmental Science FL,SP	4
_____	BIOL 1406 (core)	Biology I FL,SP,SUM	4
_____	GEOL 1403 (core)	Physical Geology FL,SP,SUM	4
_____	CHEM 1411	General Chemistry I FL,SP,SUM	4
_____	CHEM 1412	General Chemistry II FL,SP,SUM	4
_____	GISC 1470	Geospatial Systems I FL,SP	4
_____	PHYS 2425	University Physics I FL,SP,SUM	4
_____	MATH 2413 (core)	Calculus I FL,SP,SUM	4
<u>MAJOR REQUIREMENTS - 24 hours</u>			
_____	ESCI 3202	Professional Skills FL,SP	2
_____	ESCI 3351	Oceanography FL,SP	3
_____	ESCI 3403	Meteorology FL,SP	4
_____	ESCI 4335	Climate and Climate Variability SP	3
_____	ESCI 4498	Internship in Environmental Science	2
_____	ESCI 4202	Issues in Environmental Science SP	2
_____	ESCI 3443 Environmental Biology	FL,SP	2
Choose two:	GEOL 3443 Environmental Geology	SP	8
_____	CHEM 4443 Environmental Chemistry	FL	8
<u>EARTH SYSTEM SCIENCE CONCENTRATION - 31 hours</u>			
Choose one:	CHEM 3411	Organic Chemistry I FL,SP,SUM	4
_____	or CHEM 4423	or Physical Chemistry I FL	4
_____	MATH 2414	Calculus II FL,SP,SUM	4
_____	MATH 3311	Linear Algebra FL,SP,SUM	3
_____	MATH 3342	Applied Probability & Stats FL,SP,SUM	3
_____	PHYS 2426	University Physics II FL,SP,SUM	4
<u>13 hours of Designated Electives (must include 11 upper-level hours): Additional hours may be approved by faculty mentor.</u>			
_____	BIOL 3428	Principles of Ecology FL,SP	4
_____	ESCI 4360	Physical Oceanography FL	3
_____	ESCI 4490	Selected Topics	Varies
_____	ESCI 4496	Directed Independent Study	Varies
_____	ESCI 4498	Internship in Environmental Science	Varies
_____	GEOL 3442	Geomorphology FL	4
_____	GEOL 4316	Marine Geoscience	3
_____	GEOL 4411	Sedimentation & Stratigraphy SP	4
_____	GEOL 4444	Hydrogeology FL	4
_____	GISC 3421	Visualization for GIS SP	4
_____	MATH 2305	Discrete Mathematics I FL,SP,SUM	3
_____	MATH 2415	Calculus III FL,SP,SUM	4
_____	MATH 3315	Differential Equations FL,SP,SUM	3
BIOL 1407 + CHEM 1411 + MATH 2413 (may take concurrently) PHYS 1401 or 2425 Varies Varies Approval from Faculty, Chair, and Dean Junior or Senior Standing GEOL 1403 GEOL 1403 + 1404 + CHEM 1411 + 1412 GEOL 1403 + 1404 + 3411 + 3442 GEOL 1403 + MATH 2413 + [PHYS 1401 or 2425] GISC 2301 MATH 2312 or [MATH 1314 + 1316] MATH 2414 MATH 2414			

~Additional hours may be required to meet the minimum 120 hours for your degree~

UNIVERSITY REQUIREMENTS:

Minimum Total Hours for Degree:	120	College Minimum Major GPA:	2.25
Upper Division Minimum Total Hours:	45	Cumulative TAMUCC Minimum GPA:	2.00
Upper Division Minimum Residency Hours:	36	Foreign Language Requirement (see catalog)	
Upper Division Minimum Major Residency Hours:	12	First Year Seminar Requirement (UCCP 1101 & 1102)	2