

Texas A & M University-Corpus Christi

Curriculum Sheet for 2020-2021 Catalog

Degree: **Bachelor of Science**
 Major: **Environmental Science**
 Concentration: **Environmental Health & Monitoring**

UNIVERSITY CORE CURRICULUM:

		<u>HOURS</u>	<u>PREREQUISITES</u>	
_____	COMM 1311	Foundations of Communications	3	or ENGL 1301
_____	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	or HIST 2301
_____	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	

FOUNDATION COURSES - 32 hours

_____	ESCI 1401 (core)	Intro to Environmental Science FL,SP	4	
_____	BIOL 1406 (core)	Biology I FL,SP,SUM	4	MATH 1314 placement or above
_____	GEOL 1403 (core)	Physical Geology FL,SP,SUM	4	
_____	CHEM 1411	General Chemistry I FL,SP,SUM	4	MATH 1314 placement or above
_____	CHEM 1412	General Chemistry II FL,SP,SUM	4	CHEM 1411
_____	GISC 1470	Geospatial Systems I FL,SP	4	
_____	PHYS 1401 or	General Physics I or		MATH 1314;
_____	PHYS 2425	University Physics I FL,SP,SUM	4	MATH 2413
_____	MATH 1442 or 2413	Statistics for Life or Calculus I	4	See catalog

MAJOR REQUIREMENTS - 24 hours

_____	ESCI 3202	Professional Skills FL,SP	2	
_____	ESCI 3351	Oceanography FL,SP	3	CHEM 1412 or ESCI 1401 or GEOL 1403
_____	ESCI 3403	Meteorology FL,SP	4	
_____	ESCI 4335	Climate and Climate Variability SP	3	ESCI 3351 or 3403 (PHYS 1401 or 2425 recommended)
_____	ESCI 4498	Internship in Environmental Science	2	Senior Standing
_____	ESCI 4202	Issues in Environmental Science SP	2	ESCI 1401 and Junior/Senior Standing
_____	ESCI 3443	Environmental Biology FL,SP		BIOL 1407;
Choose two:	GEOL 3443	Environmental Geology SP	8	GEOL 1403;
	CHEM 4443	Environmental Chemistry FL		CHEM 1412 + 3411;

ENVIRONMENTAL HEALTH AND MONITORING CONCENTRATION - 31 hours

_____	BIOL 1407	Biology II FL,SP,SUM	4	BIOL 1406 BIOL 1406 w/ grade "C" or better + BIOL 1407 + CHEM 1411 + 1412
_____	BIOL 2421	Microbiology FL,SP	4	CHEM 1411 (CHEM 1412 recommended)
_____	CHEM 3411	Organic Chemistry I FL,SP,SUM	4	POLS 2305 + 2306
_____	ESCI 4301	Environmental Regulations FL,SP	3	Offered only online
_____	ESCI 4320	Environmental Health FL	3	

13 hours of Designated Electives (must include 11 upper level hours): Additional hours may be approved by faculty mentor.

_____	BIMS 4327	Introduction to Toxicology SUM	3	BIOL 1407 + CHEM 1412
_____	BIMS/BIOL 4406	Immunology SP	4	BIOL 2421 (BIOL 3410 recommended)
_____	BIOL 3430	Physiology FL	4	BIOL 1407
_____	BIOL 4408 or	ESCI Microbial Diversity & Ecology FL		
_____	4408	or Environmental Microbiology	4	BIOL 2421
_____	BIOL 4433	Parasitology	4	BIOL 2421
_____	BIOL 4436	Marine Ecology SP	4	BIOL 3428
_____	CHEM 3412	Organic Chemistry II FL,SP,SUM	4	CHEM 3411
_____	CHEM 3417	Quantitative Analysis SP	4	CHEM 1412
_____	CHEM 3418	Instrumental Analysis FL,SP	4	CHEM 1412
_____	ESCI 4330	Oil Spill Prevention and Response	3	Minimesters: Spring Break, May, July
_____	ESCI 4370	Hazardous Waste Operations	3	Minimesters: January, June, August
_____	MATH 3342	Applied Probability & Stats FL,SP,SUM	3	MATH 2413

PROGRAM REQUIREMENT:

Statistics requirement - MATH 1442 or MATH 3342

and 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 (UNIV 1101 & 1102)	2