

Texas A & M University-Corpus Christi

Curriculum Sheet for 2019-2020 Catalog

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

UNIVERSITY CORE CURRICULUM:		HOURS	PREREQUISITES
_____	COMM 1311 Foundations of Communications	<u>3</u>	
_____	ENGL 1302 Writing and Rhetoric	<u>3</u>	
_____	See Catalog Mathematics	<u>3</u>	
_____	See Catalog Life and Physical Sciences	<u>6</u>	
_____	See Catalog Language, Philosophy, or Culture	<u>3</u>	
_____	See Catalog Creative Arts	<u>3</u>	
_____	HIST 1301 US History to 1865	<u>3</u>	
_____	HIST 1302 US History since 1865	<u>3</u>	
_____	POLS 2305 US Government and Politics	<u>3</u>	
_____	POLS 2306 State and Local Government	<u>3</u>	
_____	See Catalog Social and Behavioral Science	<u>3</u>	
_____	See Catalog Component Area	<u>6</u>	
FOUNDATION COURSES - 32 hours			
_____	ESCI 1401 (core) Intro to Environmental Science FL,SP	<u>4</u>	
_____	BIOL 1406 (core) Biology I FL,SP,SUM	<u>4</u>	MATH 1314 placement or above
_____	GEOL 1403 (core) Physical Geology FL,SP,SUM	<u>4</u>	
_____	CHEM 1411 General Chemistry I FL,SP,SUM	<u>4</u>	MATH 1314 placement or above
_____	CHEM 1412 General Chemistry II FL,SP,SUM	<u>4</u>	CHEM 1411
_____	GISC 1470 Geospatial Systems I FL,SP	<u>4</u>	
_____	PHYS 1401 or General Physics I or	<u>4</u>	MATH 1314;
_____	PHYS 2425 University Physics I FL,SP,SUM	<u>4</u>	MATH 2413
_____	MATH 1442 or 2413 Statistics for Life or Calculus I	<u>4</u>	See catalog
MAJOR REQUIREMENTS - 24 hours			
_____	ESCI 3202 Professional Skills FL,SP	<u>2</u>	
_____	ESCI 3351 Oceanography FL,SP	<u>3</u>	CHEM 1412 or ESCI 1401 or GEOL 1403
_____	ESCI 3403 Meteorology FL,SP	<u>4</u>	
_____	ESCI 4335 Climate and Climate Variability SP	<u>3</u>	ESCI 3351 or 3403
_____	ESCI 4498 Internship in Environmental Science	<u>2</u>	(PHYS 1401 or 2425 recommended)
_____	ESCI 4202 Issues in Environmental Science SP	<u>2</u>	Senior Standing
_____	ESCI 3443 Environmental Biology FL,SP	<u>2</u>	ESCI 1401 and Junior/Senior Standing
Choose two:	GEOL 3443 Environmental Geology SP	<u>8</u>	BIOL 1407;
_____	CHEM 4443 Environmental Chemistry FL	<u>8</u>	GEOL 1403;
			CHEM 1412 + 3411;
ENVIRONMENTAL HEALTH AND MONITORING CONCENTRATION - 31 hours			
_____	BIOL 1407 Biology II FL,SP,SUM	<u>4</u>	BIOL 1406
_____	BIOL 2421 Microbiology FL,SP	<u>4</u>	BIOL 1406 w/ grade "C" or better + BIOL 1407 + CHEM 1411 + 1412
_____	CHEM 3411 Organic Chemistry I FL,SP,SUM	<u>4</u>	CHEM 1411 (CHEM 1412 recommended)
_____	ESCI 4301 Environmental Regulations FL,SP	<u>3</u>	POLS 2305 + 2306
_____	ESCI 4320 Environmental Health FL	<u>3</u>	Offered only online
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	<u>3</u>	BIOL 1407 + CHEM 1412
_____	BIMS/BIOL 4406 Immunology SP	<u>4</u>	BIOL 2421 (BIOL 3410 recommended)
_____	BIOL 3430 Physiology FL	<u>4</u>	BIOL 1407
_____	BIOL 4407 Biology of the Fungi	<u>4</u>	BIOL 2421
_____	BIOL 4408 Microbial Diversity & Ecology FL	<u>4</u>	
_____	or ESCI 4408 or Environmental Microbiology	<u>4</u>	BIOL 2421
_____	BIOL 4433 Parasitology	<u>4</u>	BIOL 2421
_____	BIOL 4436 Marine Ecology SP	<u>4</u>	BIOL 3428
_____	CHEM 3412 Organic Chemistry II FL,SP,SUM	<u>4</u>	CHEM 3411
_____	CHEM 3417 Quantitative Analysis SP	<u>4</u>	CHEM 1412
_____	CHEM 3418 Instrumental Analysis FL,SP	<u>4</u>	CHEM 1412
_____	ESCI 4330 Oil Spill Prevention and Response	<u>3</u>	Minimesters: Spring Break, May, July
_____	ESCI 4370 Hazardous Waste Operations	<u>3</u>	Minimesters: January, June, August
_____	ESCI 4490 Selected Topics	<u>Varies</u>	Varies
_____	ESCI 4496 Directed Independent Study	<u>Varies</u>	Approval from Faculty, Chair, and Dean
_____	ESCI 4498 Internship in Environmental Science	<u>Varies</u>	Junior or Senior Standing
_____	MATH 3342 Applied Probability & Stats FL,SP,SUM	<u>3</u>	MATH 2413

PROGRAM REQUIREMENT: Statistics requirement - MATH 1442 or MATH 3342

~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