

Texas A & M University-Corpus Christi

Curriculum Sheet for 2020-2021 Catalog

Degree: **Bachelor of Science**
 Major: **Environmental Science**
 Concentration: **Marine & Coastal Resources**

UNIVERSITY CORE CURRICULUM:		HOURS	PREREQUISITES
_____	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 / additional credits can apply towards electives
_____	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
_____	ESCI 4301 Environmental Regulations FL,SP	3	POLS 2305 + 2306
24 hours of Designated Electives (must include 18 upper level hours): Additional hours may be approved by faculty mentor.			
_____	BIOL 2421 Microbiology	4	BIOL 1407 + CHEM 1412
_____	BIOL 3428 Principles of Ecology	4	BIOL 1407 + CHEM 1411 + MATH 2413
_____	BIOL 4405 Limnology	4	BIOL 3428
_____	BIOL 4436 Marine Ecology SP	4	BIOL 3428
_____	BIOL 4444 Estuarine Organisms SP	4	BIOL 3413
_____	CHEM 3411 Organic Chemistry I FL,SP,SUM	4	CHEM 1411
_____	CHEM 3412 Organic Chemistry II FL,SP,SUM	4	CHEM 3411
_____	ESCI 4330 Oil Spill Prevention and Response	3	
_____	CHEM 4344 Chemical Oceanography	4	CHEM 1412
_____	CHEM 4443 Environmental Chemistry	4	CHEM 1412 + CHEM 3411
_____	ESCI 4360 Physical Oceanography FL	3	PHYS 1401/2425
_____	ESCI 4498 Internship in Environmental Science	2	
_____	GEOL 3442 Geomorphology	4	GEOL 1403
_____	GEOL 4411 Sedimentation & Stratigraphy	4	GEOL 1403 + GEOL 1404 + GEOL 3411
_____	GEOL 4436 Introduction to Petroleum Geology	4	GEOL 4411 + GEOL 4422 + GEOL 4421
_____	GEOL 4444 Hydrogeology	4	GEOL 1403 + PHYS 1401 or PHYS 2425 + MATH 2413
_____	GISC 2301 Geospatial Systems II	3	GISC 1470
_____	GISC 3421 Visualization of GIS	4	GISC 2301
_____	PHYS 1402 General Physics II	4	PHYS 1401/2425 + MATH 1314 or placement
_____	MATH 3342 Applied Probability & Stats FL,SP,SUM	3	MATH 2413

PROGRAM REQUIREMENT: Statistics requirement - MATH 1442 or MATH 3342

ed 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