

Texas A & M University-Corpus Christi

Curriculum Sheet for 2019-2020 Catalog

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

| UNIVERSITY CORE CURRICULUM: | | HOURS | PREREQUISITES |
|------------------------------------|--|--------------|----------------------|
| _____ | COMM 1311 Foundations of Communications | <u>3</u> | |
| _____ | ENGL 1302 Writing and Rhetoric | <u>3</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> | |

NOTE: Taking Math/Science/Component Area core curriculum courses other than those required for the major will result in additional courses that may not be required to complete your degree. Please consult with your major Academic Advisor for more details.

| 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 | | 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, (PHYS 1401 or 2425 recommended) |
| _____ | ESCI 4498 Internship in Environmental Science | <u>2</u> | Senior Standing |
| _____ | ESCI 4202 Issues in Environmental Science SP | <u>2</u> | ESCI 1401 and Junior/Senior Standing |
| _____ | ESCI 3443 Environmental Biology FL,SP | | BIOL 1407; |
| Choose two: | GEOL 3443 Environmental Geology SP | <u>8</u> | GEOL 1403; |
| | CHEM 4443 Environmental Chemistry FL | | CHEM 1412 + 3411; |

| MARINE AND COASTAL RESOURCES CONCENTRATION - 31 hours | | | |
|--|---|----------|------------------|
| _____ | BIOL 1407 Biology II FL,SP,SUM | <u>4</u> | BIOL 1406 |
| _____ | ESCI 4301 Environmental Regulations FL,SP | <u>3</u> | POLS 2305 + 2306 |

| Designated Electives (24 hrs, must include at least 18 upper-level hours): Additional hours may be approved by faculty mentor. | | | |
|---|--|---------------|---|
| _____ | BIOL 2421 Microbiology FL,SP | <u>4</u> | BIOL 1406 w/ grade "C" or better + BIOL 1407 + CHEM 1411 + 1412 |
| _____ | BIOL 3428 Principles of Ecology FL,SP | <u>4</u> | BIOL 1407 + CHEM 1411 + MATH 2413 (may take concurrently) |
| _____ | BIOL 4405 Limnology FL | <u>4</u> | BIOL 2421 |
| _____ | BIOL 4436 Marine Ecology SP | <u>4</u> | BIOL 3428 |
| _____ | BIOL 4444 Estuarine Organisms SP | <u>4</u> | BIOL 3413 |
| _____ | CHEM 3411 Organic Chemistry I FL,SP,SUM | <u>4</u> | CHEM 1411 |
| _____ | CHEM 3412 Organic Chemistry II FL,SP,SUM | <u>4</u> | CHEM 3411 |
| _____ | CHEM 4344 Chemical Oceanography SP | <u>3</u> | CHEM 1412 |
| _____ | CHEM 4443 Environmental Chemistry FL | <u>4</u> | CHEM 1412 + 3411 (if not used above) |
| _____ | ESCI 4330 Oil Spill Prevention and Response | <u>3</u> | Minimesters: Spring Break, May, July |
| _____ | ESCI 4360 Physical Oceanography FL | <u>3</u> | PHYS 1401 or 2425 |
| _____ | 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 |
| _____ | GEOL 3442 Geomorphology FL | <u>4</u> | GEOL 1403 |
| _____ | GEOL 4411 Sedimentation & Stratigraphy SP | <u>4</u> | GEOL 1403 + 1404 + 3411 + 3442 |
| _____ | GEOL 4436 Intro to Petroleum Geology FL | <u>4</u> | GEOL 4411 (GEOL 4322 + 4421 recommended) |
| _____ | GEOL 4444 Hydrogeology FL | <u>4</u> | GEOL 1403 + MATH 2413 + [PHYS 1401 or 2425] |
| _____ | GISC 2301 Geospatial Systems II SP | <u>3</u> | GISC 1470 |
| _____ | GISC 3421 Visualization for GIS SP | <u>4</u> | GISC 2301 |
| _____ | MATH 3342 Applied Prob. & Statistics FL,SP,SUM | <u>3</u> | MATH 2413 |
| _____ | PHYS 1402 General Physics II FL,SP,SUM | <u>4</u> | PHYS 1401 or 2425 |

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 |