## Texas A & M University-Corpus Christi

### Curriculum Sheet for 2018-2019 Catalog

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

### University Core Curriculum:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1311</td>
<td>Foundations of Communications</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 1402</td>
<td>Writing and Rhetoric</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 1301</td>
<td>US History to 1865</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 1302</td>
<td>US History since 1865</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>POLS 2305</td>
<td>US Government and Politics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>POLS 2306</td>
<td>State and Local Government</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Foundation Courses - 32 hours

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

### Major Requirements - 24 hours

- **ESCI 3202** Professional Skills FL,SP  
  - HOURS: 2  
  - PREREQUISITES: CHEM 1412 or ESCI 1401 or GEOL 1403
- **ESCI 3351** Oceanography FL,SP  
  - HOURS: 3  
  - PREREQUISITES: ESCI 3351 or 3403
- **ESCI 3403** Meteorology FL,SP  
  - HOURS: 4
- **ESCI 4335** Climate and Climate Variability SP  
  - HOURS: 3
- **ESCI 4498** Internship in Environmental Science  
  - HOURS: 3
- **ESCI 4020** Issues in Environmental Science SP  
  - HOURS: 3
- **ESCI 3443 Environmental Biology FL,SP**  
  - HOURS: 8
- **ESCI 3443 Environmental Geology SP**  
  - HOURS: 8
- **ESCI 3443 Environmental Chemistry FL**  
  - HOURS: 8

### Environmental Health and Monitoring Concentration - 31 hours

- **BIOL 1407** Biology II FL,SP,SUM  
  - HOURS: 4
- **BIOL 2421** Microbiology FL,SP  
  - HOURS: 4
- **CHEM 3411** Organic Chemistry I FL,SP,SUM  
  - HOURS: 4
- **ESCI 4301** Environmental Regulations FL,SP  
  - HOURS: 3
- **ESCI 4320** Environmental Health FL  
  - HOURS: 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  
  - HOURS: 3
- **BIMS/BIOL 4406** Immunology SP  
  - HOURS: 4
- **BIOL 3430** Physiology FL  
  - HOURS: 4
- **BIOL 4407** Biology of the Fungi  
  - HOURS: 4
- **BIOL 4408** Microbial Diversity & Ecology FL  
  - HOURS: 4
- **BIOL 4433** Parasitology  
  - HOURS: 4
- **BIOL 4436** Marine Ecology SP  
  - HOURS: 4
- **CHEM 3412** Organic Chemistry II FL,SP,SUM  
  - HOURS: 4
- **CHEM 3417** Quantitative Analysis SP  
  - HOURS: 4
- **CHEM 3418** Instrumental Analysis FL,SP  
  - HOURS: 4
- **ESCI 3330** Oil Spill Prevention and Response  
  - HOURS: 3
- **ESCI 4370** Hazardous Waste Operations  
  - HOURS: 3
- **ESCI 4490** Selected Topics  
  - HOURS: Varies
- **ESCI 4496** Directed Independent Study  
  - HOURS: Varies
- **ENGL 4498** Internship in Environmental Science  
  - HOURS: Varies
- **MATH 3342** Applied Probability & Stats FL,SP,SUM  
  - HOURS: 3

### Program Requirement:

- Statistics requirement - MATH 1442 or MATH 3342

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

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### 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

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### Notes:

- 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.

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

- Additional hours may be approved by faculty mentor.