

# ACADEMIC MAP

## Earth System Science Concentration Environmental Science, Bachelor of Science



### First Year

Fall		Hours
ESCI 1401	Environmental Science I: Intro to Environmental Science	4
GEOL 1403	Physical Geology	4
ENGL 1301	Writing and Rhetoric I	3
UNIV 1101	University Seminar I	1
HIST 1301	U.S. History to 1865	3
<b>Hours</b>		<b>15</b>

### Spring

BIOL 1406	Biology I	4
MATH 2413	Calculus I	4
ENGL 1302	Writing and Rhetoric II or COMM 1311 or Foundation of Communication	3
UNIV 1102	University Seminar II	1
HIST 1302	U.S. History Since 1865	3
<b>Hours</b>		<b>15</b>

### Second Year

#### Fall

MATH 2414	Calculus II	4
CHEM 1411	General Chemistry I	4
POLS 2305	U.S. Government and Politics	3
Creative Arts Core Requirement		3
<b>Hours</b>		<b>14</b>

#### Spring

GISC 1470	Geospatial Systems I	4
CHEM 1412	General Chemistry II	4
POLS 2306	State and Local Government	3
Language, Philosophy & Culture Core Requirement		3
<b>Hours</b>		<b>14</b>

### Third Year

#### Fall

PHYS 2425	University Physics I	4
ESCI 3202	Professional Skills	2
CHEM 3411	Organic Chemistry I	4
MATH 3342	Applied Probability and Statistics	3
Social and Behavioral Sciences Core Requirement		3
<b>Hours</b>		<b>16</b>

#### Spring

PHYS 2426	University Physics II	4
ESCI 3351	Oceanography	3
GEOL 3443	Environmental Geology	4
Designated Elective		2
Upper Level Designated Elective		3
<b>Hours</b>		<b>16</b>

### Fourth Year

#### Fall

MATH 3311	Linear Algebra	3
ESCI 3443	Environmental Biology	4
Upper Level Designated Elective		3
ESCI 3403	Introduction to Meteorology	4
<b>Hours</b>		<b>14</b>

#### Spring

ESCI 4498	Internship in Environmental Science	2
ESCI 4335	Climate and Climate Variability	3
ESCI 4202	Issues in Environmental Science	2
Upper Level Designated Elective		3
Upper Level Designated Elective		2
Elective (to meet 120 hrs)		4
<b>Hours</b>		<b>16</b>
<b>Total Hours</b>		<b>120</b>



# CAREER MAP

## Earth System Science Concentration Environmental Science *Bachelor of Science*



The mission of the Bachelor of Science program in Environmental Science is to educate students to succeed in their chosen careers, to transfer environmental knowledge to the community and to peers, and to provide an environmentally literate workforce and citizenry. The program is intended to provide the environmental science major with a broad foundation in the sciences and mathematics, as well as specialized knowledge in Marine and Coastal Resources, Earth System Science, Environmental Health and Monitoring, Policy and Regulations, and Science Education concentration areas. The environmental science curriculum prepares students for career positions in environmental science or science education, or for further professional development. Students who wish to obtain a Bachelor of Science degree in Environmental Science may do so by following one of five concentrations: Earth Systems Science, Marine and Coastal Resources, Environmental Health and Monitoring, Policy and Regulations, and Science Education.

### CONTACT INFORMATION

#### Career Counselor:

Career and Professional Development Center  
UC 304 | 361.825.2628  
career.center@tamucc.edu

#### Internship Coordinator:

Jennifer Smith-Engle  
NRC 3503 | 361.825.2436  
Jennifer.Smith-Engle@tamucc.edu

#### Department Contact:

Department of Physical and  
Environmental Sciences  
NRC 3503 | 361.825.2436  
Jennifer.Smith-Engle@tamucc.edu

### SKILLS/ATTRIBUTES

- Critical Thinking/Problem Solving
- Teamwork/Collaboration
- Professionalism/Work Ethic
- Oral/Written Communication
- Leadership
- Digital Technology
- Career Management
- Interpersonal Skills
- Self-Discipline

### CAREER OPTIONS

- Environmental Specialist
- Climate Change Analyst
- Hydrologist
- Geoscientist
- Environmental Policy Analyst
- Natural Resource Manager
- Environmental Educator
- Environmental Consultant
- Renewable Energy Specialist

### INTERNSHIP INFORMATION

The program requires a minimum of 2 hours of ESCI 4498 Internship in Environmental Science (1-4 sch) to satisfy the Major Requirements; however additional hours of credit may be applied towards the Designated Electives in a Concentration Area, with approval of the student's faculty mentor.

### ADDITIONAL SOURCES OF INFORMATION

1. Ecological Society of America
2. National Association of Environmental Professionals
3. Society of Women Environmental Professionals
4. National Environmental Health Association
5. National Council for Science and the Environment

### STUDENT ORGANIZATIONS

- Corpus Christi Student Subunit of the American Fisheries Society
- Islander Green Team
- Sea Turtle Club
- Strategies for Ecology Education, Diversity and Sustainability
- SACNAS Chapter at TAMU-CC
- Student Council of Math and Science Teachers

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