

ACADEMIC MAP

Environmental Science

BS - Grades 4-8 Science Education Concentration Teaching Certificate



First Year		Hours	Third Year		Hours
Fall			Fall		
UNIV 1101	University Seminar I	1	READ 3353	Content Area Reading for Secondary Students	3
ESCI 1401	Environmental Science I: Intro to Environmental Science	4	or READ 3352	or Content Area Reading for Elementary Students	
GEOL 1403	Physical Geology	4	ESCI 3351	Oceanography	3-4
ENGL 1301	Writing and Rhetoric I	3	or ESCI 3403	or Introduction to Meteorology	
HIST 1301	U.S. History to 1865	3	SMTE 4217	Secondary Approaches to the Life Sciences	2
Hours		15	EDUC 3211	Culturally and Linguistically Responsive Teaching	2
Spring			Spring		
UNIV 1102	University Seminar II	1	BIEM 4357	Methods of Teaching English as a Second Language	3
MATH 1442	Statistics for Life	4	Select one of the following: (refer to catalog)		
GEOL 1404	Historical Geology	4	SMTE 3315	Foundational Approaches to the Physical Sciences	3-4
ENGL 1302	Writing and Rhetoric II	3	or PHYS 1402	or General Physics II	
or COMM 1311	or Foundation of Communication		SMTE 4270	Science Education Topics I	2
EDUC 1354	Child Growth and Development	3	ESCI 4202	Issues in Environmental Science	2
HIST 1302	U.S. History Since 1865	3	SMTE 4320	Secondary Science Laboratory Techniques	3
Hours		18	Hours		
Second Year			16-18		
Fall			Fourth Year		
BIOL 1406	Biology I	4	Fall		
PHYS 1401	General Physics I	4	EDUC 4305	Seminar I	3
POLS 2305	U.S. Government and Politics	3	IDET 3210	Design and Development of Technology-Integrated Learning Environments	2
EDUC 2211	Foundations of Education	2	Elective to reach 120		
MATH 2312	Precalculus	3-4	Elective to reach 120		
or MATH 1316	or Trigonometry		Elective to reach 120		
or MATH 2413	or Calculus I		Hours		
Hours		16-17	12		
Spring			Spring		
BIOL 1407	Biology II	4	EDUC 4694	Clinical Teaching	6
PHYS 1304	Introduction to Astronomy: Solar System	3	EDUC 4395	Seminar II	3
CHEM 1411	General Chemistry I	4	Hours		
Language, Philosophy & Culture Core Requirement		3	9		
POLS 2306	State and Local Government	3	Total Hours		
SPED 3310	Individual Differences in Schools and Communities	3	120-123		
Hours		20			

This is not an official degree plan. It is a guideline for planning your courses. To access a copy of this academic map please visit tamucc.edu/academics/planning/academic-advising/



CAREER MAP

ENVIRONMENTAL SCIENCE- GRADES 4-8 SCIENCE EDUCATION CONCENTRATION

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 3502 | 361.825.2436
jennifer.smith-engle@tamucc.edu

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 Texas A&M University - Corpus Christi
- Student Council of Math and Science Teachers

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.

CAREER OPTIONS

- | | |
|----------------------------|----------------------|
| • Environmental Specialist | • Wildlife Biologist |
| • Science Teacher | • Microbiologist |
| • Marine Biologist | • Geographer |
| • Environmental Chemist | • Ecologist |
| • Environmental Technician | |

SKILLS/ATTRIBUTES

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