CATALOG YEAR 2024-2025

ACADEMIC MAP

Environmental Science

BS - Grades 4-8 Science Education Concentration

Teaching Certificate

First Year

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

Spring		
UNIV 1102	University Seminar II	1
MATH 1442	Statistics for Life	4
GEOL 1404	Historical Geology	4
ENGL 1302 or COMM 1311	Writing and Rhetoric II or Foundation of Communication	3
EDUC 1354	Child Growth and Development	3
HIST 1302	U.S. History Since 1865	3
	Hours	**18**

Second Year

Fall		
BIOL 1406	Biology I	4
PHYS 1401	General Physics I	4
POLS 2305	U.S. Government and Politics	3
EDUC 2211	Foundations of Education	2
MATH 2312 or MATH 1316 or MATH 2413	Precalculus or Trigonometry or Calculus I	3-4
	Hours	**16-17**

Spring		
BIOL 1407	Biology II	4
PHYS 1304	Introduction to Astronomy: Solar System	3
CHEM 1411	General Chemistry I	4
Language, Philosophy & Culture Core Requirement		3
POLS 2306	State and Local Government	3
SPED 3310	Individual Differences in Schools and Communities	3
	Hours	**20**

Third Year

Fall		
READ 3353 or READ 3352	Content Area Reading for Secondary Students or Content Area Reading for Elementary Students	3
ESCI 3351 or ESCI 3403	Oceanography or Introduction to Meteorology	3-4
SMTE 4217	Secondary Approaches to the Life Sciences	2
EDUC 3211	Culturally and Linguistically Responsive Teaching	2
Creative Arts Core Requirement		3
	Hours	**14**

Spring		
BIEM 4357	Methods of Teaching English as a Second Language	3
Select one of the following: (refer to catalog)		2-4
SMTE 3315 or PHYS 1402	Foundational Approaches to the Physical Sciences or General Physics II	3-4
SMTE 4270	Science Education Topics I	2
ESCI 4202	Issues in Environmental Science	2
SMTE 4320	Secondary Science Laboratory Techniques	3
	Hours	**16-18**

Fourth Year

Fall		
EDUC 4305	Seminar I	3
IDET 3210	Design and Development of Technology-Integrated Learning Environments	2
Elective to reach 120		3
Elective to reach 120		3
Elective to reach 120		1
	Hours	**12**

Spring		
EDUC 4694	Clinical Teaching	6
EDUC 4395	Seminar II	3
	Hours	**9**
	Total Hours	**120-123**

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

4-8 Science Education – Environmental Science Teacher Certification

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.

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

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

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

CAREER OPTIONS

- Science Teacher (middle school)
- Environmental Specialist
- Wildlife Biologist
- Microbiologist
- Marine Biologist
- Geographer
- Environmental Chemist
- Ecologist
- Environmental Technician

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.