

ACADEMIC MAP

ENVIRONMENTAL SCIENCE- GRADES 4-8 SCIENCE EDUCATION CONCENTRATION

Bachelor of Science



START HERE

1

SEMESTER 1 - FALL	CREDITS	COMPLETED
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	

TOTAL CREDITS: 15

2

SEMESTER 2 - SPRING	CREDITS	COMPLETED
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	
UNIV 1102 UNIVERSITY SEMINAR II	1	
HIST 1302 U.S. HISTORY SINCE 1865	3	
PSYC 2301 GENERAL PSYCHOLOGY	3	

TOTAL CREDITS: 18

YEAR 1

3

SEMESTER 3 - FALL	CREDITS	COMPLETED
BIOL 1406 BIOLOGY I	4	
PHYS 1401 GENERAL PHYSICS I	4	
POLS 2305 U.S. GOVERNMENT AND POLITICS	3	
SMTE 1350 FUNDAMENTALS OF MATHEMATICS I	3	
MATH 2312 OR MATH 1316 OR MATH 2413 PRECALCULUS OR TRIGONOMETRY OR CALCULUS I	3	

TOTAL CREDITS: 17

4

SEMESTER 4 - SPRING	CREDITS	COMPLETED
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	

TOTAL CREDITS: 17

YEAR 2

5

SEMESTER 5 - FALL	CREDITS	COMPLETED
READ 3320 PRINCIPLES AND PRACTICES OF READING INSTRUCTION	3	
ESCI 3351 OCEANOGRAPHY	3	
SMTE 4217 SECONDARY APPROACHES TO THE LIFE SCIENCES	2	
READ 3321 PRINCIPLES AND PRACTICES OF READING INSTRUCTION, GRADES 4 - 8	3	
ENGL COURSE (ADDITIONAL TEACHING REQUIREMENT)	3	
EDUC 3311 SCHOOL AND SOCIETY	3	

TOTAL CREDITS: 17

6

SEMESTER 6 - SPRING	CREDITS	COMPLETED
READ 3351 READING ASSESSMENT AND INTERVENTION	3	
ESCI 4230 OIL SPILL PREVENTION AND RESPONSE THEORY	2	
SMTE 3315 FOUNDATIONAL APPROACHES TO THE PHYSICAL SCIENCES	3	
SMTE 4270 SCIENCE EDUCATION TOPICS I	2	
ESCI 4202 ISSUES IN ENVIRONMENTAL SCIENCE	2	
SMTE 4320 SECONDARY SCIENCE LABORATORY TECHNIQUES	3	

TOTAL CREDITS: 15

YEAR 3

7

SEMESTER 7 - FALL	CREDITS	COMPLETED
CREATIVE ARTS CORE REQUIREMENT	3	
EDUC 4311 CLASSROOM MANAGEMENT	3	
EDUC 4605 PLANNING, TEACHING, ASSESSMENT AND TECHNOLOGY	6	

TOTAL CREDITS: 12

8

SEMESTER 8 - SPRING	CREDITS	COMPLETED
EDUC 4321 INSTRUCTIONAL DESIGN FOR SPECIAL POPULATIONS	3	
EDUC 4995 CLINICAL TEACHING	9	

TOTAL CREDITS: 12

YEAR 4

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/

123 CREDITS | FINISHED!



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 |