

# ACADEMIC MAP

## Ecology Track – Biology, Bachelor of Science



FINISH IN



First Year		Hours
<b>Fall</b>		
BIOL 1406	Biology I	4
CHEM 1411	General Chemistry I	4
ENGL 1301	Writing and Rhetoric I	3
UNIV 1101	University Seminar I	1
University Core Curriculum		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
BIOL 1407	Biology II	4
CHEM 1412	General Chemistry II	4
ENGL 1302	Writing and Rhetoric II	3
UNIV 1102	University Seminar II	1
University Core Curriculum		3
<b>Hours</b>		<b>15</b>
<b>Summer</b>		
MATH 2413	Calculus I	4
University Core Curriculum		3
University Core Curriculum		3
<b>Hours</b>		<b>10</b>
<b>Second Year</b>		
<b>Fall</b>		
BIOL 2416	Genetics	3-4
	or BIOL 2421 or Microbiology	
	or BIOL 2371 or Principles of Evolution	
CHEM 3411	Organic Chemistry I	4
University Core Curriculum		3
University Core Curriculum		3
<b>Hours</b>		<b>13-14</b>
<b>Spring</b>		
BIOL 2416	Genetics	3-4
	or BIOL 2421 or Microbiology	
	or BIOL 2371 or Principles of Evolution	
CHEM 3412	Organic Chemistry II	4
BIOL 2300	Science Communication	3
University Core Curriculum		3
<b>Hours</b>		<b>13-14</b>

<b>Third Year</b>		
<b>Fall</b>		
BIOL 2416	Genetics	3-4
	or BIOL 2421 or Microbiology	
	or BIOL 2371 or Principles of Evolution	
BIOL 3428	Principles of Ecology	4
BIOL Core Topical Area Requirement		4
Upper Level BIOL Electives		4
<b>Hours</b>		<b>15-16</b>
<b>Spring</b>		
MATH 3342	Applied Probability and Statistics	3
BIOL Core Topical Area Requirement		4
Ecology CT Core Advanced Ecology		4
Upper Level BIOL Electives		4
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
BIOL Core Topical Requirement		4
Ecology CT Core Advanced Ecology		4
Upper Level BIOL Electives		4
<b>Hours</b>		<b>12</b>
<b>Spring</b>		
Upper Level BIOL Electives		12-14
<b>Hours</b>		<b>12-14</b>
<b>Total Hours</b>		<b>120-125</b>

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/](http://tamucc.edu/academics/planning/academic-advising/)



# CAREER MAP

## Biology- Ecology Track *Bachelor of Science*



The Ecology Track focuses on interactions between organisms and the physical environment. Students choosing this track will be preparing for careers in fields such as agriculture, environmental protection, conservation, natural resource management, and public education. The biology program provides diverse training for careers in the biological sciences. The biology curriculum includes content courses required for teacher certification in life science, acceptance to post-graduate studies, and pre-professional studies in preparation for admission to professional schools. Students will acquire content and skills to enter a variety of biology-related careers such as research, marine biology, wildlife and coastal management, environmental protection, laboratory technician, biotechnology industry, medical or environmental microbiology, technical writing, pharmaceutical sales, careers in the medical, dental, and allied health fields, and science education. Field and laboratory courses emphasize the development of practical skills in using special materials and equipment. Focus is on enhancement of critical thinking skills, which will prepare the student for careers in the biological sciences as well as in other general areas of employment. The undergraduate biology degree has six tracks, fitting a wide variety of student interests and career goals.

### CONTACT INFORMATION

**Career Counselor:**

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### CAREER OPTIONS

- Ecologist
- Conservation Scientist
- Science Educator/Teacher
- Environmental Consultant
- Laboratory Technician
- Medical Microbiologist
- Park Ranger/Naturalist
- Environmental Biologist
- Wildlife and Coastal Management
- Professional School (Med school, dental school, optometry, etc.)

### SKILLS/ATTRIBUTES

- Communication Skills
- Research
- Ability to use scientific equipment and organize and maintain accurate records.
- Aptitude for scientific inquiry and problem solving.
- Ability to organize, analyze and interpret scientific data.
- Conduct and clearly explain scientific research.
- Teamwork

### ADDITIONAL PROGRAM REQUIREMENTS

1. American Fisheries Society
2. Association for the Sciences of Limnology and Oceanography
3. Society for Marine Mammalogy

### STUDENT ORGANIZATIONS

- American Cetacean Society Student Coalition
- Pre-Veterinary Society
- SACNAS Chapter at Texas A&M University - Corpus Christi
- Pre-Dental Society
- American Medical Student Association
- Sea Turtle Club
- American Fisheries Society
- Indian Student Association
- Islander Green Team
- Health Sciences Association
- Student Council of Math and Science Teachers