ACADEMIC MAP

Ecology Track - Biology Bachelor of Science



First Year			Third Year
Fall		Hours	Fall
BIOL 1406	Biology I	4	BIOL 2416
CHEM 1411	General Chemistry I	4	or BIOL 242
ENGL 1301	Writing and Rhetoric I	3	or BIOL 23
UNIV 1101	University Seminar I	1	BIOL 3428
University Core Curriculum		3	BIOL Core Top
	Hours	15	Upper Level B
Spring			
BIOL 1407	Biology II	4	Spring
CHEM 1412	General Chemistry II	4	MATH 3342
ENGL 1302	Writing and Rhetoric II	3	BIOL Core To
UNIV 1102	University Seminar II	1	Ecology CT C
University Core C	•	3	Upper Level E
	Hours	15	
Summer			Fourth Year
MATH 2413	Calculus I	4	Fall
University Core Curriculum		3	BIOL Core To
University Core Curriculum		3	Ecology CT C
	Hours	10	Upper Level E
Second Year			
Fall			Spring
BIOL 2416	Genetics	3-4	Upper Level E
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	
	Hours	13-14	
Spring			
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 C	Curriculum	3	
	Hours	13-14	

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



CAREER MAP

BIOLOGY - ECOLOGY TRACK

Bachelor of Science



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 preprofessional 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. These tracks include: Cellular & Molecular Biology, Ecology, Integrative Biology, Marine Biology, Microbiology, Organismal Biology. The biology core provides students with a broad biological background and includes coursework in four key areas:

mathematics, the chemistry of life/cell biology, form and function, and organismal biology. In each of these areas students select one course from a list of appropriate courses, depending on their interests and choice of biology career track. The biology career track areas are: (A) Ecology, (B) Marine Biology, (C) Cell/Molecular Biology, (D) Microbiology, (E) Organismal Biology and (F) Integrative Biology.

CONTACT INFORMATION

Career Counselor:

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ADDITIONAL SOURCES OF INFORMATION

- 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

AREER OPTIONS		
Researcher	Pharmaceutical Sales	
Marine Biologist	Laboratory Technician	
Medical Microbiologist	Science Teacher	
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