ACADEMIC MAP

Integrative Biology Track, Biology Bachelor of Science



First Year		
Fall		Hours
BIOL 1406	Biology I	4
CHEM 1411	General Chemistry I	4
ENGL 1301	Writing and Rhetoric I	3
UNIV 1101	University Seminar I	1
HIST 1301	U.S. History to 1865	3
or HIST 1302	or U.S. History Since 1865	
or HIST 2301	or Texas History	
0	Hours	15
Spring	Biolome II	
BIOL 1407	Biology II	4
CHEM 1412	General Chemistry II	4
ENGL 1302	Writing and Rhetoric II	3
UNIV 1102	University Seminar II	1
HIST 1301	U.S. History to 1865	3
or HIST 1302 or HIST 2301	or U.S. History Since 1865 or Texas History	
0111101 2001	Hours	15
Summer	riouis	13
MATH 2413	Calculus I	4
WATH 2413	Hours	4
0	Hours	4
Second Year Fall		
CHEM 3411	Organic Chemistry I	4
BIOL 2416	Genetics	3-4
or BIOL 2421	or Microbiology	
or BIOL 2371	or Principles of Evolution	
POLS 2305	U.S. Government and Politics	3
ARTS 1301	Art and Society	3
or ARTS 1303 or MEDA 1305	or Art History Survey I or Film and Culture	
or MUSI 1306	or Understanding and Enjoying Music	
or MUSI 1307	or Elements of Musical Style	
or THEA 1310	or Theatre Appreciation	
	Hours	13-14
Spring		
CHEM 3412	Organic Chemistry II	4
BIOL 2416	Genetics	3-4
or BIOL 2421	or Microbiology	
or BIOL 2371	or Principles of Evolution	
MATH 3342 or BIOL 3325	Applied Probability and Statistics or Biostatistics	3
POLS 2306	State and Local Government	3
ECON 1301	Introduction to Economics	3
or ECON 2301	or Macroeconomics Principles	
or ECON 2302	or Microeconomics Principles	
or PSYC 2301	or General Psychology	
or SOCI 1301	or Introduction to Sociology	
	Hours	16-17

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	or BIOL 2421	or Microbiology	3-4

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/



CATALOG YEAR 2024-2025

ACADEMIC MAP

Integrative Biology Track, Biology Bachelor of Science





CAREER MAP

Biology-Integrative Biology Track

Bachelor of Science



The undergraduate biology degree has six tracks, fitting a wide variety of student interests and career goals. The Integrative Biology track emphasizes the integration of physical factors, cells, tissues, organs, and organ systems in producing functional organisms. Students choosing this track will be preparing for careers in health care, government or academic research, agriculture, or biology sales. This track is also a good choice for students planning to attend graduate school because it provides a great deal of flexibility depending on the student's interests and career goals. 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.

CONTACT INFORMATION

Career Counselor:

Career and Professional Development Center UC 304 | 361.825.2628 career.center@tamucc.edu

Internship Coordinator:

Dr. Kim Withers NRC 3205 | 361.825.5907 kim.withers@tamucc.edu

Department Contact:

Department of Life Sciences NRC 3205 | 361.825.5907 kim.withers@tamucc.edu

CAREER 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

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