CATALOG YEAR 2023-2024

ACADEMIC MAP

Organismal-Plant Biology Track
Biology, Bachelor of Science

TEXAS A&M UNIVERSITY CORPUS CHRISTI

FINISH IN 4

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 or HIST 1302 or HIST 2301	U.S. History to 1865 or U.S. History Since 1865 or Texas History	3
	Hours	**15**

Spring		
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 or HIST 1302 or HIST 2301	U.S. History to 1865 or U.S. History Since 1865 or Texas History	3
	Hours	**15**

Summer		
MATH 2413	Calculus I	4
	Hours	**4**

Second Year

Fall		
CHEM 3411	Organic Chemistry I	4
BIOL 2416 or BIOL 2421 or BIOL 2371	Genetics or Microbiology or Principles of Evolution	3-4
ENGL 2316 or ENGL 2332 or ENGL 2333 or PHIL 1301 or PHIL 2306 or SPAN 3307 or SPAN 3308 or SPAN 3309 or SPAN 3310	Literature and Culture or Literature of the Western World: From the Classics to the Renaissance or Literature of the Western World: From the Enlightenment to the Present or Introduction to Philosophy or Introduction to Ethics or Spanish Literature I or Spanish Literature II or Spanish American Literature I or Spanish American Literature II	3
POLS 2305	U.S. Government and Politics	3
	Hours	**13-14**

Spring		
CHEM 3412	Organic Chemistry II	4
BIOL 2300	Science Communication	3
BIOL 2416 or BIOL 2421 or BIOL 2371	Genetics or Microbiology or Principles of Evolution	3-4
POLS 2306	State and Local Government	3
ARTS 1301 or ARTS 1303 or MEDA 1305 or MUSI 1306 or MUSI 1307 or THEA 1310	Art and Society or Art History Survey I or Film and Culture or Understanding and Enjoying Music or Elements of Musical Style or Theatre Appreciation	3
	Hours	**16-17**

Third Year

Fall		
BIOL 3428	Principles of Ecology	4
BIOL 2416 or BIOL 2421 or BIOL 2371	Genetics or Microbiology or Principles of Evolution	3-4
BIOL 3000:4999		3
BIOL 3000:4999		3
BIOL 3000:4999		3
	Hours	**16-17**

Spring		
BIOL 3455	Plant form and Function	4
BIOL 3479	Plant Ecology	4
BIOL 2472	Principles of Botany	4
MATH 3342 or BIOL 3325	Applied Probability and Statistics or Biostatistics	3
	Hours	**15**

Fourth Year

Fall		
Biology Requirement		4
ECON 1301 or ECON 2301 or ECON 2302 or PSYC 2301 or SOCI 1301	Introduction to Economics or Macroeconomics Principles or Microeconomics Principles or General Psychology or Introduction to Sociology	3
BIOL 3000:4999		3
BIOL 3000:4999		3
Biology Requirement		4
	Hours	**17**

Spring		
BIOL 3000:4999		4
BIOL 3000:4999		4
BIOL 3000:4999		4
	Hours	**12**
	Total Hours	**123-126**

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

BIOLOGY - ORGANISMAL - PLANT BIOLOGY 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 pre-professional studies in preparation for admission to professional schools. <p>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. <p>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: <p>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

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ADDITIONAL SOURCES OF INFORMATION

1. American Fisheries Society <p>2. Association for the Sciences of Limnology and Oceanography <p>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

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

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https://www.tamucc.edu/institutional-advancement/career-center/