ACADEMIC MAP

Cell/Molecular Biology Track Biology, Bachelor of Science



	nogy, bacheror or science				
First Year			Third Year		
Fall		Hours	Fall		
BIOL 1406	Biology I	4	BIOL 3428	Principles of Ecology	4
CHEM 1411	General Chemistry I	4	BIOL 3410	Cell Biology	4
ENGL 1301	Writing and Rhetoric I	3	BIOL 2371	Principles of Evolution	3
UNIV 1101	University Seminar I	1	Biology Requirem	ent	4
HIST 1301 or HIST 1302 or HIST 2301	U.S. History to 1865 or U.S. History Since 1865 or Texas History	3	Spring CHEM 4401	Hours Biochemistry I	15
	Hours	15	BIOL 3403	Molecular Biology	4
Spring			MATH 3342	Applied Probability and Statistics	3
BIOL 1407	Biology II	4	or BIOL 3325	or Biostatistics	
CHEM 1412	General Chemistry II	4		Hours	11
ENGL 1302	Writing and Rhetoric II	3	Fourth Year		
UNIV 1102	University Seminar II	1	Fall		
HIST 1301	U.S. History to 1865	3	BIOL 4340	Genomics, Proteomics and Bioinformatics	3
or HIST 1302	or U.S. History Since 1865		ECON 1301	Introduction to Economics	3
or HIST 2301	or Texas History		or ECON 2301 or ECON 2302	or Macroeconomics Principles or Microeconomics Principles	
	Hours	15	or PSYC 2301	or General Psychology	
Summer			or SOCI 1301	or Introduction to Sociology	
MATH 2413	Calculus I	4	ENGL 2316	Literature and Culture	3
	Hours	4	or ENGL 2332	or Literature of the Western World: From	
0			or ENGL 2333 or PHIL 1301	the Classics to the Renaissance or Literature of the Western World: From	
Second Year			or PHIL 2306	the Enlightenment to the Present	
Fall	Oi- Obi-tI		or SPAN 3307	or Introduction to Philosophy	
CHEM 3411 POLS 2305	Organic Chemistry I U.S. Government and Politics	4	or SPAN 3308	or Introduction to Ethics	
BIOL 2416	Genetics	3	or SPAN 3309	or Spanish Literature I	
University Core C		6	or SPAN 3310	or Spanish Literature II or Spanish American Literature I	
Offiversity Core C	Hours	17		or Spanish American Literature II	
Spring	Tiouis	.,	BIOL 3000:4999		4
CHEM 3412	Organic Chemistry II	4	BIOL 3000:4999		4
BIOL 2421	Microbiology	4		Hours	17
BIOL 2300	Science Communication	3	Spring		
POLS 2306	State and Local Government	3	CHEM 4402	Biochemistry II	4
ARTS 1301	Art and Society	3	BIOL 3000:4999	Distriction of the	4
or ARTS 1303	or Art History Survey I				
or MEDA 1305			BIOL 3000:4999		4
or MUSI 1306 or MUSI 1307	or Understanding and Enjoying Music or Elements of Musical Style		BIOL 3000:4999		4
or MUSI 1307	· · · · · · · · · · · · · · · · · · ·			Hours	16
	Hours	17		Total Hours	127

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

TEXAS A&M UNIVERSITY CORPUS CHRISTI

BIOLOGY - CELL/MOLECULAR 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 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:

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

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

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,				

SKILLS/ATTRIBUTES

Communication Skills

optometry, etc.)

- 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