ACADEMIC MAP



Microbiology - 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 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	U.S. History to 1865	3
or HIST 1302 or HIST 2301	or U.S. History Since 1865 or Texas History	
	Hours	15
Summer		
MATH 2413	Calculus I	4
	Hours	4
Second Year	110410	
Fall		
	Omersia Observiator I	
CHEM 3411	Organic Chemistry I	4
or BIOL 2421 or BIOL 2371	Genetics or Microbiology or Principles of Evolution	3-4
POLS 2305	U.S. Government and Politics	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	13-14
Spring		
CHEM 3412	Organic Chemistry II	4
BIOL 2416	Genetics	3-4
or BIOL 2421 or BIOL 2371	or Microbiology or Principles of Evolution	
MATH 3342 or BIOL 3325	Applied Probability and Statistics or Biostatistics	3
ECON 1301 or ECON 2301 or ECON 2302 or PSYC 2301	Introduction to Economics or Macroeconomics Principles or Microeconomics Principles or General Psychology	3
or SOCI 1301	or Introduction to Sociology	

ummer		
OLS 2306	State and Local Government	
	Hours	
Third Year		
Fall		
BIOL 3428	Principles of Ecology	
BIOL 2416	Genetics	3-
or BIOL 2421	or Microbiology	Ŭ
or BIOL 2371	or Principles of Evolution	
PHYS 1401	General Physics I	
or PHYS 2425	or University Physics I	
Biology Requirem	nent	
	Hours	15-1
Spring		
BIOL 2300	Science Communication	
BIOL 4406	Immunology	
BIOL 3403	Molecular Biology	
ENGL 2316	Literature and Culture	
or ENGL 2332	or Literature of the Western World: From	
or ENGL 2333	the Classics to the Renaissance	
or PHIL 1301	or Literature of the Western World: From	
or PHIL 2306	the Enlightenment to the Present	
or SPAN 3307		
or SPAN 3308		
or SPAN 3309 or SPAN 3310	or Spanish Literature I or Spanish Literature II	
01 SPAN 3310	or Spanish American Literature I	
	or Spanish American Literature II	
PHYS 1402	General Physics II	
or PHYS 2426	The state of the s	
	Hours	1
Fourth Year		
Fall		
BIMS 4374	Medical Microbiology	
CHEM 4401	Biochemistry I	
BIOL 3410	Cell Biology	
Biology Requirer	ment	
	Hours	1
Spring		
CHEM 4402	Biochemistry II	
BIMS 3000:4999		
BIOL 3000:4999		
BIOL 3000:4999		
	Hours	1
	Total Hours	127-13

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-Microbiology Track

Bachelor of Science



This Microbiology track focuses on bacteria, viruses, fungi and protozoa. Many of these organisms are important to industry, agriculture, and health care. Students choosing this track will be preparing for careers in industrial, environmental, medical, public health, and agricultural laboratories, industrial quality control, health care professions, research, biotechnology, and microbiology-related sales. 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

- Pharmaceutical Sales
- Laboratory Technician
- Medical Microbiologist
- Science Teacher
- Clinical Microbiologist
- Public Health
- Industrial Microbiologist
- Environmental Biologist
- Researcher
- 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