First Year

or MUSI 1307

or THEA 1310

ACADEMIC MAP

Cell/Molecular Biology Track, Bachelor of Science



Third 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 Hours 15 Spring BIOL 1407 **Biology II** 4 General Chemistry II 4 CHEM 1412 3 ENGL 1302 Writing and Rhetoric II **UNIV 1102** University Seminar II 1 HIST 1301 3 U.S. History to 1865 or HIST 1302 or U.S. History Since 1865 or HIST 2301 or Texas History 15 Hours Summer MATH 2413 Calculus I 4 Hours 4 Second Year Fall Organic Chemistry I CHEM 3411 POLS 2305 U.S. Government and Politics 3 **BIOL 2416** 4 Genetics 6 University Core Curriculum 17 Hours Spring CHEM 3412 Organic Chemistry II BIOL 2421 Microbiology BIOL 2300 Science Communication 3 POLS 2306 State and Local Government ARTS 1301 Art and Society or Art History Survey I or ARTS 1303 or Film and Culture or MEDA 1305 or MUSI 1306 or Understanding and Enjoying Music

or Elements of Musical Style

or Theatre Appreciation

Hours

Fall		
BIOL 3428	Principles of Ecology	4
BIOL 3410	Cell Biology	4
BIOL 2371	Principles of Evolution	3
Biology Requirem	ent	4
	Hours	15
Spring		
CHEM 4401	Biochemistry I	4
BIOL 3403	Molecular Biology	4
MATH 3342	Applied Probability and Statistics	3
or BIOL 3325	or Biostatistics	
	Hours	11
Fourth Year		
Fall		
BIOL 4340	Genomics, Proteomics and Bioinformatics	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	
ENGL 2316	Literature and Culture	3
or ENGL 2332 or ENGL 2333	or Literature of the Western World: From 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 Introduction to Philosophy	
or SPAN 3308	or Introduction to Ethics	
or SPAN 3309	or Spanish Literature I	
or SPAN 3310	or Spanish Literature II	
	or Spanish American Literature I	
	or Spanish American Literature II	
BIOL 3000:4999		4
BIOL 3000:4999		4
	Hours	17
Spring		
CHEM 4402	Biochemistry II	4
BIOL 3000:4999		4
BIOL 3000:4999		4
BIOL 3000:4999		4
	Hours	16
	Total Hours	127

4

4 4

3

3

17



CAREER MAP





Biology-Cell/Molecular Biology Track Bachelor of Science

The Cell/Molecular Biology track focuses on the chemical, cellular, and tissue levels of biological organization. Students choosing this track will be preparing for careers in biotechnology and healthcare professions, research laboratories, biological/pharmaceutical manufacturing and quality control, agricultural testing, and health- or biotechnology-related sales. This track also prepares students for graduate studies in biology, biotechnology and health-related sciences. 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, 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

- Professional School (Med school, dental school, optometry, etc.)
- Researcher
- Pharmaceutical Sales
- Marine Biologist
- Laboratory Technician
- Medical Microbiologist
- Science Teacher
- Environmental Biologist
- Wildlife and Coastal Management

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

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