ACADEMIC MAP

Pre-Professional

Biomedical Sciences, Bachelor of Science



First Year	·	Hausa	Third Year Fall		
Fall BIOL 1406	Piology I	Hours 4	PHYS 1401	General Physics I	4
CHEM 1411	Biology I	4	CHEM 4401	Biochemistry I	4
	General Chemistry I	4		ophy & Culture Core Requirement	3
UNIV 1101	University Seminar I	1	(ENGL 2316, 2332, 2333)		3
ENGL 1301	Writing and Rhetoric I	3	BIOL 3410 Cell Biology		4
MATH 2312	Precalculus	3		Hours	15
- •	Hours	15	Spring		
Spring			PHYS 1402	General Physics II	4
BIOL 1407	Biology II	4	CHEM 4402	Biochemistry II	4
CHEM 1412	General Chemistry II	4	or BIMS 3403	or Molecular Biology	
UNIV 1102	University Seminar II	1	MATH 1442	Statistics for Life	3-4
ENGL 1302	Writing and Rhetoric II	3	or MATH 3342	,	
MATH 2413	Calculus I	4	or BIOL 3325 BIOL 4334	or Biostatistics Biology and Ecology of Coral Reefs	3
	Hours	16	or BIOL 3345	or Cell Physiology	3
Summer				Hours	14-15
HIST 1301	U.S. History to 1865	3	Summer		
HIST 1302	U.S. History Since 1865	3	BIMS 4327	Introduction to Toxicology	3
	Hours	6	or BIOL 4304	or Biology of Viruses Hours	3
Second Year			Fourth Year	nours	3
Fall			Fall		
BIOL 2416	Genetics	4	BIOL 3430	Physiology	4
CHEM 3411	Organic Chemistry I	4	or BIMS 3401	or Pathophysiology	
BIOL 2371	Principles of Evolution	3	BIMS 4311 or BIMS 4374	Biology of Cancer or Medical Microbiology	3
Creative Arts Cor	'	3	BIOL 4340	Genomics, Proteomics and Bioinformatics	3
	Hours	14	BIOC 4040	(or other BIMS/BIOL/CHEM elective)	Ü
Spring	Tiouis	14	BIMS 4335	Endocrinology	3-4
BIOL 2421	Microbiology	4	or BIOL 4408 or BIMS 4410	or Microbial Diversity and Ecology	
CHEM 3412	Organic Chemistry II		or BIMS 4375	or Histology or Mechanisms of Microbial	
	•	4		Pathogenesis	
PSYC 2301 or SOCI 1301	General Psychology or Introduction to Sociology	3	Spring	Hours	13-14
	Hours	11	BIMS 4323	Neurobiology (OR BIOL)	3
Summer			BIMS 4406	Immunology	4
POLS 2305	U.S. Government and Politics	3	BIOL or BIMS OR	CHEM elective	4
POLS 2306	State and Local Government	3	BIMS 4085	Major Field Test in Biology	0
	Hours	6		Hours	11
				Total Hours	124-126



CAREER MAP

BIOMEDICAL SCIENCES PRE-PROFESSIONAL





The Biomedical Sciences Program prepares students for biomedical career opportunities including health services, research, forensic science, genetic engineering, biotechnology, bioinformatics, product sales, and services dealing with analysis, assessment and inspection. A few biomedical careers are available to a student with a baccalaureate degree, but most will require the student to complete post-baccalaureate course work or to earn a graduate degree. The two options in the Biomedical Sciences Program prepare students to enter post-baccalaureate or graduate programs in the health professions (e.g., medicine, dentistry, pharmacy, physician assistant, physical therapy, occupational therapy, etc.) or for careers and/or graduate training in forensic science and related areas.

CONTACT INFORMATION

Career Counselor:

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

Internship Coordinator: Gregory Buck TH 309D | 361.825.3717 Gregory.Buck@tamucc.edu

Department Contact:Department of Life Sciences
TH 309D | 361.825.3717
gregory.buck@tamucc.edu

ADDITIONAL PROGRAM REQUIREMENTS

The Bachelor of Science in Biomedical Sciences degree requires a minimum of 120 semester hours: 42 are from designated Core Curriculum Program courses, 17 are from biomedical sciences core courses, and 61 are from biomedical sciences option courses. Students select one of two biomedical sciences options: (A) Pre-Professional Option or (B) Forensic Science Option. A student should select an option after completion of a minimum of 35 semester hours of university course work, but before the completion of 50 semester hours. After their sophomore year (60 semester hours), students must have (and maintain) a cumulative GPA of 2.50 or above in their course work, with no course work older than 5 years. No "D" or "F" grades will be accepted as credit within the biomedical sciences core or option courses. Students may take a maximum of 9 SCH as BIMS 4590 courses. A minimum cumulative grade-point average of 2.0 ("C") on a 4 point scale (4.0 = A) in all work taken and a minimum grade-point average of 2.25 in all courses in the major field of study taken at this University are required. The courses in the major field of study are defined for each major, and can be found on the pages for that major. For teacher certification, grade point average requirements are higher. Refer to "Teacher Certification Programs" in the College of Science and Engineering.

CAREER OPTIONS

- Professional School (Med school, dental school, pharmacy school, optometry, veterinarian school, chiropractic school, etc.)
- Forensic Scientist
- Researcher

SKILLS/ATTRIBUTES

- Critical Evaluation of Literature
- Ability to Follow Protocols and Methodologies
- Collection and Analysis of Complex Data
- Understand Research Regulations in Biomedical Sciences
- Working Knowledge of Biological Sub-Discipline

STUDENT ORGANIZATIONS

- Alpha Epsilon Delta
- American Medical Student Association
- Coastal Bend Health Professionals Initiative
- Health Sciences Association
- Women in Healthcare
- SACNAS Chapter at Texas A&M University Corpus Christi
- Indian Student Association
- Pre-Dental Society

ADDITIONAL SOURCES OF INFORMATION

- 1. American Academy of Forensic Sciences
- 2.American Society of Clinical Laboratory Science Careers in Forensics
- 3. National Association of Medical Examiners
- 4. American Institute of Biological Sciences
- 5. Association of Molecular Pathology
- 6. American Society of Microbiology
- 7. American Society of Cell Biology

This content is subject to change.

Please check our website to receive the most up to date information: https://www.tamucc.edu/institutional-advancement/career-center/