

ACADEMIC MAP

BIOMEDICAL SCIENCES PRE-PROFESSIONAL

Bachelor of Science

START HERE



FINISH IN



1

SEMESTER 1 - FALL	CREDITS	COMPLETED
BIOL 1406 BIOLOGY I	4	✓
CHEM 1411 GENERAL CHEMISTRY I	4	
UNIV 1101 UNIVERSITY SEMINAR I	1	
COMM 1311 FOUNDATION OF COMMUNICATION	3	
MATH 2312 PRECALCULUS	3	

TOTAL CREDITS: 15

S1

SUMMER 1	CREDITS	COMPLETED
HIST 1301 U.S. HISTORY TO 1865	3	
HIST 1302 U.S. HISTORY SINCE 1865	3	

TOTAL CREDITS: 6

3

SEMESTER 3 - FALL	CREDITS	COMPLETED
BIOL 2416 GENETICS	4	
CHEM 3411 ORGANIC CHEMISTRY I	4	
BIOL 2371 PRINCIPLES OF EVOLUTION	3	
CREATIVE ARTS CORE REQUIREMENT	3	

TOTAL CREDITS: 14

S2

SUMMER 2	CREDITS	COMPLETED
POLS 2305 U.S. GOVERNMENT AND POLITICS	3	
POLS 2306 STATE AND LOCAL GOVERNMENT	3	

TOTAL CREDITS: 6

5

SEMESTER 5 - FALL	CREDITS	COMPLETED
PHYS 1401 GENERAL PHYSICS I	4	
CHEM 4401 BIOCHEMISTRY I	4	
LANGUAGE, PHILOSOPHY & CULTURE CORE REQUIREMENT (ENGL 2316, 2332, 2333)	3	
BIOL 3410 CELL BIOLOGY	4	

TOTAL CREDITS: 15

S3

SUMMER 3	CREDITS	COMPLETED
BIMS 4327 OR BIOL 4304 INTRODUCTION TO TOXICOLOGY OR BIOLOGY OF VIRUSES	3	

TOTAL CREDITS: 3

7

SEMESTER 7 - FALL	CREDITS	COMPLETED
BIOL 3430 OR BIMS 3401 PHYSIOLOGY OR PATHOPHYSIOLOGY	4	
BIMS 4311 OR BIMS 4374 BIOLOGY OF CANCER OR MEDICAL MICROBIOLOGY	3	
BIOL 4340 GENOMICS, PROTEOMICS AND BIOINFORMATICS (OR OTHER BIMS/BIOL/CHEM ELECTIVE)	3	
BIMS 4335 OR BIOL 4408 OR BIMS 4410 OR BIMS 4375 ENDOCRINOLOGY OR MICROBIAL DIVERSITY AND ECOLOGY OR HISTOLOGY OR MECHANISMS OF MICROBIAL PATHOGENESIS	3	

TOTAL CREDITS: 13

2

SEMESTER 2 - SPRING	CREDITS	COMPLETED
BIOL 1407 BIOLOGY II	4	
CHEM 1412 GENERAL CHEMISTRY II	4	
UNIV 1102 UNIVERSITY SEMINAR II	1	
ENGL 1302 WRITING AND RHETORIC II	3	
MATH 2413 CALCULUS I	4	

TOTAL CREDITS: 16

YEAR 1

4

SEMESTER 4 - SPRING	CREDITS	COMPLETED
BIOL 2421 MICROBIOLOGY	4	
CHEM 3412 ORGANIC CHEMISTRY II	4	
PSYC 2301 OR SOCI 1301 GENERAL PSYCHOLOGY OR INTRODUCTION TO SOCIOLOGY	3	

TOTAL CREDITS: 11

YEAR 2

6

SEMESTER 6 - SPRING	CREDITS	COMPLETED
PHYS 1402 GENERAL PHYSICS II	4	
CHEM 4402 OR BIMS 3403 BIOCHEMISTRY II OR MOLECULAR BIOLOGY	4	
MATH 1442 OR MATH 3342 OR BIOL 3325 STATISTICS FOR LIFE OR APPLIED PROBABILITY AND STATISTICS OR BIostatISTICS	3	
BIOL 4334 OR BIOL 3345 BIOLOGY AND ECOLOGY OF CORAL REEFS OR CELL PHYSIOLOGY	3	

TOTAL CREDITS: 14

YEAR 3

8

SEMESTER 8 - SPRING	CREDITS	COMPLETED
BIMS 4323 NEUROBIOLOGY (OR BIOL)	3	
BIMS 4406 IMMUNOLOGY	4	
BIOL OR BIMS OR CHEM ELECTIVE	4	
BIMS 4085 MAJOR FIELD TEST IN BIOLOGY	0	

TOTAL CREDITS: 11

YEAR 4

124 CREDITS | FINISHED!



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

BIOMEDICAL SCIENCES PRE-PROFESSIONAL

Bachelor of Science



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.

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