ACADEMIC MAP

Pre-Professional Biomedical Sciences, Bachelor of Science





First Year			Third Year		
Fall		Hours	Fall		
BIOL 1406	Biology I	4	PHYS 1401	General Physics I	4
CHEM 1411	General Chemistry I	4	CHEM 4401	Biochemistry I	4
UNIV 1101	University Seminar I	1	Language, Philosophy & Culture Core Requirement		3
ENGL 1301	Writing and Rhetoric I	3	(ENGL 2316, 2332, 2333)		
MATH 2312	Precalculus	3	BIOL 3410	Cell Biology	4
	Hours	15		Hours	15
Spring			Spring		
BIOL 1407	Biology II	4	PHYS 1402	General Physics II	4
CHEM 1412	General Chemistry II	4	CHEM 4402 or BIMS 3403	Biochemistry II or Molecular Biology	4
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	or Biostatistics	
	Hours	16	BIOL 4334 or BIOL 3345	Biology and Ecology of Coral Reefs or Cell Physiology	3
Summer			01 0102 0040	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	
Second Year			Fourth Mass	Hours	3
Fall			Fourth Year 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	Biology of Cancer	3
Creative Arts Cor	· · · ·	3	or BIMS 4374	or Medical Microbiology	2
Cleative Arts CO	Hours	14	BIOL 4340	Genomics, Proteomics and Bioinformatics (or other BIMS/BIOL/CHEM elective)	3
Onvine	nouis	14	BIMS 4335	Endocrinology	3-4
Spring	Misrahiolom		or BIOL 4408	or Microbial Diversity and Ecology	
BIOL 2421	Microbiology	4	or BIMS 4410 or BIMS 4375	or Histology or Mechanisms of Microbial	
CHEM 3412	Organic Chemistry II	4	0. 2	Pathogenesis	
PSYC 2301 or SOCI 1301	General Psychology or Introduction to Sociology	3		Hours	13-14
0.0001001		11	Spring		
Cummor	Hours	11	BIMS 4323	Neurobiology (OR BIOL)	3
Summer	U.C. Covernment and Delition	0	BIMS 4406 BIOL or BIMS OR	Immunology	4
POLS 2305	U.S. Government and Politics	3	BIOL OF BIMS OR BIMS 4085	Major Field Test in Biology	4
POLS 2306	State and Local Government	3	21110 1000	Hours	11
	Hours	6		Total Hours	124-126

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

This option is designed for students who plan to continue their education in a professional school (e.g., medicine, dentistry, veterinary medicine, pharmacy, physical therapy, occupational therapy, physician assistant, etc.) or graduate school. 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.

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

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 TAMU-CC
- 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

ADDITIONAL PROGRAM REQUIREMENTS

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 gradepoint 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
- Laboratory Technician
- Clinical Research Coordinator
- Pharmaceutical Sales
- Quality Control Analyst
- Biotechnology Technician

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