

Texas A&M University-Corpus Christi

This Curriculum **EXPIRES**
August 2026

Curriculum Sheet for 2019- 2020 Catalog

Degree: **Bachelor of Science**
Major: **Biomedical Sciences**
Emphasis: **Forensic Science**

IMPORTANT NOTE: After sophomore year, students must have & maintain a cum GPA of 2.5 or above, with no course older than 5 years old. No "D" will be accepted as credit within the Biomedical Sciences core or option courses.

UNIVERSITY CORE CURRICULUM

<u>COURSE</u>	<u>DESCRIPTION</u>	<u>SCH</u>
<u>COMM 1311</u>	Foundation of Communication	<u>3</u>
<u>ENGL 1302</u>	Eng. Composition	<u>3</u>
<u>MATH 2413</u>	Calculus I	(3) See catalog for pre-requisite courses
<u>BIOL 1406</u>	Biology I	(3)
<u>BIOL 1407</u>	Biology II	(3) BIOL 1406
<u>See Catalog</u>	Language, Philosophy, and Culture	<u>3</u> ENGL 1302
<u>HIST 1301</u>	US History to 1865	<u>3</u>
<u>HIST 1302</u>	US History Since 1865	<u>3</u>
<u>POLS 2305</u>	US Government and Politics	<u>3</u>
<u>POLS 2306</u>	State and Local Government	<u>3</u>
<u>See Catalog</u>	Creative Arts	<u>3</u>
<u>PSYC 2301</u>	Social and Behavioral Science	<u>3</u>
Component Area Option	General Chemistry I	<u>(6)</u>

FIRST-YEAR SEMINARS/ PROFESSIONAL SKILLS

<u>UCCP 1101 & UCCP 1102 or</u>	First-Year Seminar	<u>2</u>
<u>BIMS 2200</u>	Professional Skills	<u>2</u>

BIOMEDICAL SCIENCES CORE

<u>BIOL 1406</u>	Biology I	<u>4</u>
<u>BIOL 1407</u>	Biology II	<u>4</u>
<u>BIOL 2416</u>	Genetics	<u>4</u>
<u>BIOL 2421</u>	Microbiology	<u>4</u>
<u>CHEM 1411</u>	General Chemistry I	<u>4</u>
<u>CHEM 1412</u>	General Chemistry II	<u>4</u>
<u>*CHEM 3411</u>	Organic Chemistry I	<u>4</u>

[SAT scores of 520 (math), 500 (reading) or ACT 21 (math, English, and Reading)] OR [completion of MATH 1314 (or equivalent)] OR completion of Pre-calculus in high school

BIOL 1406
BIOL 1406 w/ Grade "C" or higher, BIOL 1407, CHEM 1412
BIOL 1406 w/ Grade "C" or higher, BIOL 1407, CHEM 1412
CHEM 1411 and MATH 1314 or ~
CHEM 1411

FORENSIC SCIENCE REQUIRED CLASSES

<u>*BIMS 3200</u>	Essential for Applied LS (FL)	<u>2</u>
<u>*BIMS 3103</u>	Essentials Lab Forensi Sci (FL)	<u>1</u>
<u>*BIMS 3320</u>	Survey of Forensic Science (FL)	<u>3</u>
<u>*BIMS 3325</u>	Professional Practice in Forensic Sci (SP)	<u>3</u>
<u>*BIMS 4340</u>	Forensic Science in Criminal Law (SP)	<u>3</u>
<u>*CHEM 3412</u>	Organic Chemistry II	<u>4</u>
<u>*CHEM 3418</u>	Instrumental Analysis	<u>4</u>
<u>*CRIJ 4340</u>	Criminal Investigation (SP)	<u>3</u>
<u>MATH 2413</u>	Calculus I	<u>4</u>
<u>PHYS 2425 or</u>	University Physics I (Preferred)	<u>4</u>
<u>PHYS 1401</u>	General Physics I	<u>4</u>
<u>PHYS 2426 or</u>	University Physics II (Preferred)	<u>4</u>
<u>PHYS 1402</u>	General Physics II	<u>4</u>

BIOL 1407 and CHEM 1412
Prerequisite or Co-requisite: BIMS 3100
BIMS 3320
BIMS 3320
CHEM 3411
CHEM 1412
MATH 2312 or MATH 1314 and MATH 1316
MATH 2413 or placement beyond MATH 2413
MATH 1314 or ~
PHYS 2425 and MATH 2414
PHYS 1401 or PHYS 2425 and MATH 1314 or ~

CHOOSE ONE FROM THE FOLLOWING:

<u>MATH 1442 or</u>	Statistics for Life (4)	MATH 0300 or placement beyond MATH 0300
<u>*MATH 3342</u>	Applied Probability & Statistics (3)	MATH 2413

CHOOSE ONE FROM THE FOLLOWING:

<u>*BIMS 3403</u>	Molecular Biology (SP)	<u>4</u>
<u>*BIOL 3410</u>	Cell Biology (FL)	<u>4</u>
<u>*CHEM 3417</u>	Quantitative Analysis (SP)	<u>4</u>
<u>*CHEM 4401</u>	Biochemistry I (FL-SP)	<u>4</u>
<u>*CHEM 4407</u>	Adv. Inorganic Chemistry	<u>4</u>
<u>MATH 2414</u>	Calculus II	<u>4</u>

BIOL 2416 and BIOL 2421
BIOL 2416 and CHEM 3411
CHEM 1412
CHEM 3412 and one year Biology
CHEM 3412 (Physical Chemistry recommended)
MATH 2413

Forensic Track Electives

<u>BIOL 4085 or CHEM 4085</u>	Select 18-19 SCH from list Major Field Test-BIOL or CHEM	See page 2 - Forensic science elective list for choices Senior Standing
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University, College and Major Requirements

Minimum Total Hours for degree: 120
*Upper Division minimum total hours: 45
*Upper Division minimum residency hours: 36
*Upper Division minimum major residency hrs: 12

Cumulative TAMU-CC minimum g.p.a.: 2.5

Minimum Major g.p.a.: 2.25
Minimum Science or Math Grade "C"
Foreign Language Requirement: see catalog

Curriculum Sheet for 2019- 2020 Catalog

ELECTIVE LIST FOR BIOMEDICAL SCIENCES - FORENSIC SCIENCE EMPHASIS MAJORS

<u>Forensic Science Elective list</u>	<u>SCH</u>	<u>Prerequisite (PRE-REQS)</u>
*BIMS 3401 <u>Pathophysiology (FL)</u>	<u>4</u>	CHEM 1411 and BIOL 1407, or BIOL 2401
*BIMS 4295 <u>Biomedical Practicum</u>	<u>2</u>	PERMISSION OF INSTRUCTOR
*BIMS 4299 <u>Directed Ind. Research 1-2 sem hrs.</u>	—	Junior Class Standing, BIOL 1407 and CHEM 1412, and consent of instructor
*BIMS 4325 <u>Clinical Chemistry I (FL)</u>	<u>3</u>	CHEM 4401 (CLSC HAS REGISTRATION PRIORITY)
*BIMS 4326 <u>Clinical Chemistry II (SP)</u>	<u>3</u>	BIMS 4325 (CLSC HAS REGISTRATION PRIORITY)
*BIMS 4327 <u>Intro to Toxicology (SS)</u>	<u>3</u>	BIOL 1407 and CHEM 1412
*BIMS 4333 <u>Medical Entomology</u>	<u>3</u>	BIOL 1407
*BIMS 4395 <u>Forensic Science Internship (FL)</u>	<u>3</u>	BIMS 3320
*BIMS 4396 <u>Directed Ind. Study (1-3 hrs. 6 max)</u>	<u>3</u>	BIOL 1407 and CHEM 1412 and CONSENT OF INSTRUCTOR
*BIMS 4406 <u>Immunology (SP)</u>	<u>4</u>	BIOL 2421 (BIOL 3410 or 3345 recommended)
*BIMS 4410 <u>Histology (FL EVEN YRS)</u>	<u>4</u>	BIOL 3425
*BIMS 4590 <u>Selected Topics req.:Mentor aproval</u>	—	CONSENT OF INSTRUCTOR
*BIOL 2472 <u>Principles of Botany (SP ODD YRS)</u>	<u>4</u>	BIOL 1407 and CHEM 1411, or CONSENT OF INSTRUCTOR
*BIOL 3425 <u>Functional Anatomy (SP)</u>	<u>4</u>	BIOL 1407 (Cannot receive credit for this and either BIOL 2401 or BIOL 2402)
*BIOL 3430 <u>Physiology (FL)</u>	<u>4</u>	BIOL 1407 (Cannot receive credit for this and either BIOL 2401 or BIOL 2402)
*BIOL 4340 <u>Geonomics,Proteomics, & Bio (FL)</u>	<u>3</u>	BIOL 2416 and either BIOL 3410 or CHEM 4401
*BIOL 4350 <u>Research & Design</u>	<u>3</u>	Consent of instructor
*BIOL 4371 <u>Population Genetics (FL EVEN YRS)</u>	<u>3</u>	BIOL 2416 and MATH 2413 or PERMISSION OF INSTRUCTOR
*BIOL 4407 <u>Biology of the Fungi (SP EVEN YRS)</u>	<u>4</u>	BIOL 2421
*BIOL 4433 <u>Parasitology (SP)</u>	<u>4</u>	BIOL 2421 or CONSENT OF INSTRUCTOR
*BIOL 4435 <u>Biological Microtechniques (SS EVEN YRS)</u>	<u>4</u>	BIOL 1407 and CHEM 3411
*CHEM 4320 <u>Drugs.Toxins & Natural Prod in Chem (FL-SP)</u>	<u>3</u>	CHEM 4401
*CHEM 4402 <u>Biochemistry II (FL-SP)</u>	<u>4</u>	CHEM 4401
*CHEM 4409 <u>Adv.Instrumental Analysis</u>	<u>4</u>	CHEM 3411, CHEM 3412, and CHEM 3418
*CHEM 4420 <u>Physical Biochemistry</u>	<u>4</u>	CHEM 1412, PHYS 1402 or PHYS 2426, MATH 2414
*CHEM 4423 <u>Physical Chemistry I (FL)</u>	<u>4</u>	CHEM 1412, PHYS 1402 or PHYS 2426, MATH 2414
*CHEM 4424 <u>Physical Chemistry II (SP)</u>	<u>4</u>	CHEM 4423
*ENGL 3301 <u>Technical & Professional Writing</u>	<u>3</u>	Core Communication Component Area complete