

Degree: **Bachelor of Science**
 Major: **BIOLOGY**
 Emphasis: **INTEGRATIVE**

UNIVERSITY CORE CURRICULUM

_____	COMM 1311	Foundation of Communication
_____	ENGL 1302	Writing and Rhetoric
_____	See Catalog	Language, Philosophy, Culture
_____	HIST 1301	US History to 1865
_____	HIST 1302	US History Since 1865
_____	POLS 2305	US Government and Politics
_____	POLS 2306	State and Local Government
_____	See Catalog	Creative Arts
_____	See Catalog	Social and Behavioral Science
_____	MATH 2413	Calculus I
_____	BIOL 1406	Gen Biology I
_____	BIOL 1407	Gen Biology II
_____	CHEM 1411	Gen. Chemistry I
_____	CHEM 1412	Gen. Chemistry II

SCH PREREQUISITES

_____	3	
_____	3	
_____	3	
_____	3	
_____	3	
_____	3	
_____	3	
_____	3	
_____	3	
_____	3	MATH 1314 & MATH 1316 or 2312 or see catalog for placement criteria
_____	(3)	MATH 1314 or see catalog for placement criteria
_____	(3)	BIOL 1406
_____	(3)	
_____	(3)	CHEM 1411 & MATH 1314 or see catalog for placement criteria

First-Year Seminars/ Professional Skills

2 Credits required
Choose UCCP 1101 & UCCP 1102 or BIOL 2200
 UCCP 1101 & UCCP 1102 **First-Year Seminar**
 BIOL 2200 **Professional Skills**

_____	2
_____	2

Biology Core:

_____	BIOL 1406	<u>Biology I</u>	4	MATH 1314 or see catalog for placement criteria
_____	BIOL 1407	<u>Biology II</u>	4	BIOL 1406
_____	BIOL 2416	<u>Genetics</u>	4	BIOL 1406 w "C", 1407, CHEM 1411 & CHEM 1412
_____	BIOL 2421	<u>Microbiology</u>	4	BIOL 1406 w "C", 1407, CHEM 1411 & CHEM 1412
_____	BIOL 2371	<u>Principles of Evolution</u>	3	BIOL 1407
_____	BIOL 3428	<u>Principles of Ecology</u>	4	BIOL 1407, CHEM 1411, BIOL 2200 or UCCP1101/1102 & pre/co-req MATH 2413
_____	CHEM 1411	<u>Gen. Chemistry I</u>	4	
_____	CHEM 1412	<u>Gen. Chemistry II</u>	4	Chem 1411 and MATH 1314 or see catalog for placement criteria
_____	*CHEM 3411	<u>Organic Chemistry I</u>	4	Chem 1411
_____	*CHEM 3412	<u>Organic Chemistry II</u>	4	Chem 3411
_____	MATH 2413	<u>Calculus I</u>	4	MATH 1314 & MATH 1316, or MATH 2312 or see placement criteria
_____	*BIOL 4292	<u>Senior Presentation</u>	2	BIOL 2200 or UCCP 1101/1102 & senior standing

Math requirement:

Choose one from the following:

_____	MATH 1314	<u>College Algebra</u>	3	College Ready
_____	MATH 1316	<u>Trigonometry</u>	3	MATH 1314 or see catalog for placement criteria
_____	MATH 2312	<u>Precalculus</u>	3	MATH 1314 or see catalog for placement criteria
_____	MATH 2414	<u>Calculus II</u>	4	MATH 2413
_____	MATH 3342	<u>Applied Probability and Stats</u>	3	MATH 2413

Chemistry of Life/Cell Biology requirement: Choose one from the following:

_____	BIOL3403	<u>Molecular Biology (SP)</u>	4	BIOL 2416, BIOL 2421
_____	BIOL 3410	<u>Cell Biology (FL)</u>	4	BIOL 2416, CHEM 3411
_____	CHEM 4401	<u>Biochemistry I</u>	4	CHEM 3412

Form and Function Requirement requirement: Choose one from the following:

_____	BIOL 3425	<u>Functional Anatomy (SP)</u>	4	BIOL 1407
_____	BIOL 3430	<u>Physiology (FL)</u>	4	BIOL 1407 OR BIOL 2401&BIOL2402
_____	BIOL 3455	<u>Plant Form and Function (even SP)</u>	4	BIOL 1407

Organismal Biology requirement: Choose one from the following:

_____	BIOL 2472	<u>Principles of Botany (odd SP)</u>	4	BIOL 1407 & CHEM 1411
_____	BIOL 3413	<u>Invertebrate Zoology (FL, SS)</u>	4	BIOL 1407
_____	BIOL 3414	<u>Vertebrate Zoology (FL)</u>	4	BIOL 1407

INTEGRATIVE REQUIRED CLASSES: 20 sem hours (8 can count in BIOL core)

_____	BIOL 3410	<u>Cell Biology (FL)</u>	4	CHEM 3411 & BIOL 2416
_____	BIOL 3425	<u>Functional Anatomy (SP)</u>	4	BIOL 1407
_____	BIOL 3430	<u>Physiology (FL,SS)</u>	3	BIOL 1407
_____	PHYS 1401 or 2425	<u>Physics I</u>	4	see catalog
_____	PHYS 1402 or 2426	<u>Physics II</u>	4	see catalog

Integrative Advanced Mathematics Requirement: Choose one from the following:

_____	MATH 2414	<u>Calculus II</u>	4	MATH 2413
_____	MATH 3342	<u>Applied Probability and Stats</u>	3	MATH 2413

INTEGRATIVE ELECTIVES: See elective list

18-19

University Requirements

Minimum Total Hours for degree:	120	Minimum Major grade point average (GPA):
*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	First Year Seminar Requirement: UCCP 1101/1102
Foreign Language Requirement:	see catalog	

2.5

2