

This Curriculum expires after six years.

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

UNIVERSITY CORE CURRICULUM

_____	COMM 1311	Foundation of Communication	3
_____	ENGL 1302	Writing and Rhetoric	3
_____	See Catalog	Language, Philosophy, Culture	3
_____	HIST 1301	US History to 1865	3
_____	HIST 1302	US History Since 1865	3
_____	POLS 2305	US Government and Politics	3
_____	POLS 2306	State and Local Government	3
_____	See Catalog	Creative Arts	3
_____	See Catalog	Social and Behavioral Science	3
_____	MATH 2413	Calculus I	(3) MATH 1314 & MATH 1316 or 2312, or placement
_____	BIOL 1406	Gen Biology I	(3) MATH 1314 or placement beyond
_____	BIOL 1407	Gen Biology II	(3) BIOL 1406
_____	CHEM 1411	Gen. Chemistry I	(3)
_____	CHEM 1412	Gen. Chemistry II	(3) CHEM 1411 & MATH 1314 or placement beyond

SCH PREREQUISITES

Note: Taking core curriculum courses other than those listed below will result in additional credit hours apply to your degree. Please consult your academic advisor for more details.

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

_____	UCCP 1101 & UCCP 1102	First-Year Seminar	2
_____	BIOL 2200	Professional Skills	2

Biology Core:

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

Math requirement:**Choose one from the following:**

_____	MATH 1314	College Algebra	3	College Ready
_____	MATH 1316	Trigonometry	3	MATH 1314, level IV ready
_____	MATH 2312	Precalculus	3	MATH 1314, level IV ready
_____	MATH 2414	Calculus II	4	MATH 2413
_____	MATH 3342	Applied Probability and Stats	3	MATH 2413

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

_____	BIOL 3403	Molecular Biology (SP)	4	BIOL 2416 & BIOL 2421
_____	BIOL 3410	Cell Biology (FL)	4	CHEM 3411 & BIOL 2416
_____	CHEM 4401	Biochemistry I	4	CHEM 3412 & one year biology

Form and Function requirement: Choose one from the following:

_____	BIOL 3425	Functional Anatomy (SP)	4	BIOL 1407
_____	BIOL 3430	Physiology (FL,SS)	4	BIOL 1407
_____	BIOL 3455	Plant Form and Function (alt)	4	BIOL 1407

Organismal Biology requirement: Choose one from the following:

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

ECOLOGY CORE CLASSES: Choose two from the following:

_____	BIOL 3479	Plant Ecology (Odd SP)	4	BIOL 1407
_____	BIOL 4405	Limnology	4	BIOL 3428
_____	BIOL 4408	Microbial Diversity and Ecology (Odd FL)	4	BIOL 2421
_____	BIOL 4436	Marine Ecology (SP)	4	BIOL 3428
_____	BIOL 4446	Tropical Ecosystems and Conservation	4	BIOL 3428

Advanced Math Requirement:

_____	MATH 3342	Applied Probability and Stats	3	MATH 2413
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ECOLOGY ELECTIVES: See elective list

22-23

University Requirements

Minimum Total Hours for degree:	120	Minimum Major grade point average (g.p.a.):	2.5
*Upper Division minimum total hours:	45		
*Upper Division minimum residency hours:	36		
*Upper Division minimum major residency hrs:	12	First Year Seminar Requirement: UCCP 1101/1102	
Cumulative TAMU-CC minimum g.p.a.:	2		2
Foreign Language Requirement:	see catalog		