

This Curriculum expires after six years.

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

UNIVERSITY CORE CURRICULUM

			SCH	PREREQUISITES
_____	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 MATH 2312
_____	BIOL 1406	Gen Biology I	(3)	MATH 1314 or see catalog for placement criteria
_____	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 see catalog for placement criteria

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	<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, & 1412
_____	BIOL 2421	<u>Microbiology</u>	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, BIOL 2200 or UCCP 1101/1102, CHEM 1411 & pre-co-req MATH 2413
_____	CHEM 1411	Gen. Chemistry I	4	
_____	CHEM 1412	Gen. Chemistry II	4	Chem 1411 & MATH 1314 or see catalog for placement criteria
_____	*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	<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:

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

Form and Function 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
_____	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)</u>	4	BIOL 1407
_____	BIOL 3414	<u>Vertebrate Zoology (SP)</u>	4	BIOL 1407

ECOLOGY CORE CLASSES: Choose two from the following:

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

Advanced Math Requirement:

_____	MATH 3342	<u>Applied Probability and Stats</u>	3	MATH 2413
-------	-----------	--------------------------------------	---	-----------

ECOLOGY ELECTIVES: See elective list**22-23****University Requirements**

Minimum Total Hours for degree:	120	Minimum Major grade point average (GPA):	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		