This Curriculum expires after six years

Curriculum Sheet for 2020-2021 Catalog

Degree: **Bachelor of Science**
Major: **BIOLOGY**
Emphasis **CELLULAR/MOLECULAR**

UNIVERSITY CORE CURRICULUM			**SCH**	**PREREQUISITES**
	See Catalog	Communication	6	ENGL 1302 Requires ENGL1301 as a pre-requiste
	See Catalog	Language, Philosophy, Culture	3	
	See Catalog	American History	6	
	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 and MATH 1316 or 2312 or placement
	BIOL 1406	Gen Biology I	(3)	MATH 1314 or placement beyond
	BIOL 1407	Gen Biology II	(3)	BIOL1406
	CHEM 1411	Gen. Chemistry I	(3)	
	CHEM 1412	Gen. Chemistry II	(3)	CHEM 1411 & MATH 1314 or placement beyond
Biology Core				
	BIOL 1406	Biology I	4	MATH 1314 or see catalog for placement criteria
	BIOL 1407	Biology II	4	BIOL 1406
	BIOL 2300	Science Communication	3	
	BIOL 2416	Genetics	4	BIOL 1406 w "C", BIOL 1407, CHEM 1411, & CHEM 1412
	BIOL 2421	Microbiology	4	BIOL 1406 w "C", BIOL 1407, CHEM 1411, & CHEM 1412
	BIOL 2371	Principles of Evolution	3	BIOL 1407
	BIOL 3428	Principles of Ecology	4	BIOL 1407, CHEM 1411, BIOL 2200 or UCCP1101/1102, & pre/co-req 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 and MATH 1316 or 2312 or placement
Statistics requirement:	**Choose one from the following:**			
	BIOL 3325	Biostatistics	3	College Ready
	MATH 3342	Applied Probability and Stats	3	MATH 2413
Chemistry of Life/Cell Biology requirement: Choose one from the following:				
	BIOL3403	Molecular Biology (SP)	4	BIOL 2416, BIOL 2421
	BIOL 3410	Cell Biology (FL)	4	BIOL 2416, CHEM 3411
	CHEM 4401	Biochemistry I	4	CHEM 3412
Form and Function requirement: Choose one from the following:				
	BIOL 3425	Functional Anatomy (SP)	4	BIOL 1407
	BIOL 3430	Physiology (FL)	4	BIOL 1407
	BIOL 3455	Plant Form and Function (even SP)	4	BIOL 1407
Organismal Biology requirement: Choose one from the following:				
	BIOL 2472	Principles of Botany (odd SP)	4	BIOL 1407 & CHEM 1411
	BIOL 3413	Invertebrate Zoology (FL)	4	BIOL 1407
	BIOL 3414	Vertebrate Zoology (SP)	4	BIOL 1407
CELLULAR/MOLECULAR CORE CLASSES: (15 sem hours)				
	BIOL 3403	Molecular Biology (SP)	4	BIOL 2416 & BIOL 2421
	BIOL 3410	Cell Biology (FL)	4	CHEM 3411 & BIOL 2416
	BIOL 4340	Genomics, Proteomics, Bioinformatics (FL)	3	BIOL 2416 & (BIOL 3410 or CHEM 4401)
	CHEM 4401	Biochemistry I	4	CHEM 3412 & one year biology
	CHEM 4402	Biochemistry II	4	CHEM 4401
CELLULAR/MOLECULAR ELECTIVES: See elective list			20	Upper division

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:	2	First Year Seminar Requirement: UNIV 1101/1102	
Foreign Language Requirement:	see catalog		