Degree: Biology BS
Transfer 2-Year Academic Roadmap

Year 1: Junior Year				
Fall	Term(s)	Pre-re	q Pre-req Course(s)	Units
BIOL Group A or B	Fall & Spring	·/	BIOL 2020	4
BIOL Group C or D	Fall & Spring		BIOL 2020	4
Free elective				3
GE				3
Semester Total			14	

				Year Total		31
Spring	Term(s)	Pre	-req	Pre-req Course(s)	Units	
BIOL Group A or B	Fall & Spring		<u>,</u>	BIOL 2020		4
BIOL Group C or D	Fall & Spring		-,	BIOL 2020		4
Free elective						3
GE						3
WI Course or elective						3
Semester Total						17

Year 2: Senior Year					
Fall	Term(s)	Pre-req		Pre-req Course(s)	Units
BIOL major elective	Fall & Spring	[·	_	BIOL 2020	4
BIOL major elective	Fall & Spring	[·	_	BIOL 2020	4
BIOL 5000	Fall & Spring			BIOL 2020	1
GE			-		3
Free elective					3
Semester Total					15
*Course may be offered in summer					

			Year Total	29
Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
BIOL major elective	Fall & Spring	[·/	BIOL 2020	4
BIOL major elective	Fall & Spring		BIOL 2020	4
Free elective				3
Free elective				3
	Semester To	tal		14
Degree Units Total			60	

Notes:

Students that have not taken 1 yr organic chemistry and/or physics should take these in place of the free electives (see below)

Organic/Biochem/Quantitative Chemistry options (take one of the three below):

CHEM 2400+2400L and CHEM 2500+2500L (1 year organic chem)

CHEM 2300 + 2400L and CHEM 4100+4100L (1 sem. organic + 1 sem. biochem)

CHEM 2300 + 2400L and CHEM 3200 (1 sem. organic + quantitative chem)

Physics options (Take one of the two below):

PHYS 2000 + 2000L and PHYS 2010 + 2010L

PHYS 2500 + 2500L, PHYS 2510 + PHYS 2510L, and PHYS 2700

GE courses should include GE-B5, GE-C4, GE-D4

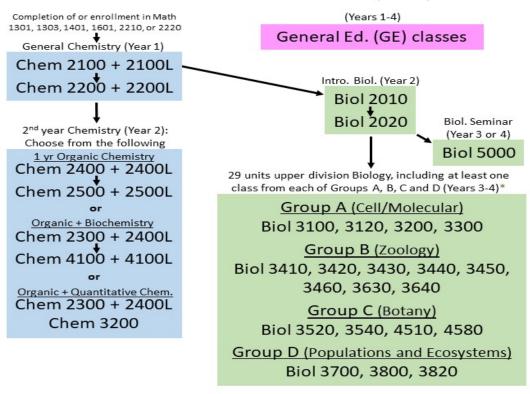
Students may overlay Global Perspectives (G), Diversity and Inclusiveness (DI), and Writing Intensive (WI) with GE courses.

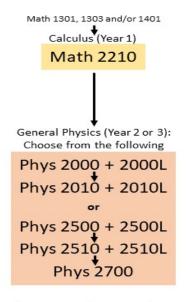
One G and one DI course are required. Two WI courses are required, one as upper division.

Some BIOL majors courses may satisfy the WI requirement.

B.S. in Biology semester degree requirements

Arrows indicate prerequisites





^{*}Some upper division Biology classes may have Organic Chemistry, Biochemistry, or Calculus as prerequisites.

Biology Courses (Semesters)

Semester BIOL			
course			
number	Units	Group	Semester course title
2010	5		Principles of Biology I (Cellular Biology, Bacteria, Plants)
2020	5		Principles of Biology II (Fungi, Animals, Populations)
3100	4	Α	Cell Biology
3120	4	А	Molecular Biology
3130	2		Biology of Stem Cells
3200	4	А	Microbiology
3300	4	Α	Genetics
3400	3		Comparative Embryology
3410	4	В	Biology of Invertebrates
3420	5	В	Comparative Biology of the Vertebrates
3430	3	В	Mammalogy
3440	3	В	Herpetology
3450	3	В	Ornithology
3460	3	В	Entomology
3520	3	С	Local Flora
3540	4	С	Plant biology and diversity
3630	4	В	Comparative Animal Physiology I
3640	4	В	Comparative Animal Physiology II
3700	4	D	Evolution
3800	4	D	Ecology
3820	4	D	Microbial Ecology
4200	5		Medical Microbiology
4270	5		Functional Microbial Genomics
4400	4		Developmental Biology
4510	5	С	Plant Physiology
4580	3	С	Medical and Economic Botany
4630	5		Human Anatomy and Physiology I
4640	5		Human Anatomy and Physiology II

5000	1	Biology Seminar
5010	1	Ethics in Biological Research
5050	4	Biostatistics and Experimental Design
5100	4	Experimental Cellular Analysis
5130	3	Animal Tissue Culture
5150	3	Neurobiology
5160	2	Introduction to Regulatory Affairs in the Life Sciences
5170	2	Laboratory in Human Embryonic Stem Cell Culture
5260	4	Genomics
5280	3	Advanced Molecular Genetics
5300	3	Microscopy
5310	4	Advanced Molecular Techniques
5320	4	Virology
5370	5	Immunology
5420	3	Advanced Vertebrate Morphology
5550	4	Comparative Biomechanics
5670	3	Endocrinology
5720	4	Population Genetics
5820	3	Vertebrate Field Biology
5840	4	Conservation Biology
5850	3	Global Change Biology
5860	4	Physiological Ecology

Note: Some independent study/research/internship courses are not shown.