

ATTENTION:

Changes to the course schedule/repeated coursework may affect your plan. <u>YOU</u> are responsible for ensuring all degree requirements are met. Please see an Academic Advisor at least once a year.

BACHELOR OF SCIENCE OR ARTS IN BIOLOGY WITH A CELL & MOLECULAR EMPHASIS STARTING FALL 2024

IMPORTANT INFORMATION TO REMEMBER:

Students <u>MUST</u> complete a minimum of 40 Upper Division Hours (3000+ level courses)

Students <u>MUST</u> complete a minimum of 42 Biology credit hours

Students <u>MUST</u> complete a minimum 16 Upper Division Biology Hours (3000+ level courses)

Students <u>MUST</u> complete 21 Biology Residency Hours that <u>MUST</u> be taken at the U

SCIENCE CORE

COURSE	TITLE	CREDITS	SEMESTER	
MATH 1170 OR MATH 1210	CALCULUS FOR BIOLOGIST I OR CALCULUS I	4		
MATH 1180 OR MATH 1220	STATS W/CALCULUS FOR BIOLOGIST II OR CALCULUS II	4		
CHEM 1210	GEN CHEMISTRY I	4		
CHEM 1215	GEN CHEMISTRY LAB I	1		
CHEM 1220	GEN CHEMISTRY II	4		
CHEM 1225	GEN CHEMISTRY LAB II	1		
CHEM 2310	ORGANIC CHEMISTRY I	4		
PHYS 2010	GENERAL PHYSICS I	4		
PHYS 2020	GENERAL PHYSICS II	4		

BIOLOGY CORE

COURSE	TITLE	CREDITS	SEMESTER
BIOL 1610	FUND. OF BIOLOGY I	4	
BIOL 1615	FUND. OF BIOLOGY LAB I	1	
BIOL 1620	FUND. OF BIOLOGY II	4	
BIOL 1625	FUND. OF BIOLOGY LAB II	1	
BIOL 2020 OR BIOL 2021	PRINC. OF CELL BIOLOGY OR PRINC. OF CELL SCIENCE (HONORS)	3 OR 4	
BIOL 2030	GENETICS	3	
BIOL 3410	ECOLOGY & EVOLUTION	3	
BIOL 3510	BIOLOGICAL CHEMISTRY	3	

EMPHASIS REQUIRED COURSES COMPLETE 3 EMPHASIS ELECTIVES

COURSE	TITLE	CREDI	SEMESTER
		TS	
BIOL 3150	GENOMICS &	3 [L1]	
BIOL 3130	BIOINFORMATICS	J [LI]	

BIOL 3210	GENERAL & PATHOGENIC	3	
	MICROBIOLOGY		
BIOL 3240	INTRO TO CELLUAR	3	
BIOL 3240	NEUROBIOLOGY	3	
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 3520	BIOLOGICAL CHEMISTRY II	3	
BIOL 3550	PHYSICAL PRINCIPLES IN		
OR	BIOLOGY	3	
BIOL 3551	BIOLOGY		
BIOL 5120	GENE EXPRESSION	3	
	CELL STRUCTURE		
BIOL 5210	AND	3	
	FUNCTION		
BIOL 5510	GENES, DEVLOPMENT &	3	
	EVOLUTION	3	
BIOL 5920	ADVANCE EUKARYOTIC	3	
	GENETICS	3	

COMPLETE 1 REQUIRED EMPHASIS LAB

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3125	MOL TOOLS FOR EVO & POPULATION BIOLOGY	3 [L2]	
BIOL 3205	GENERAL MICROBIOLOGY LAB	1 [L1]	
BIOL 3515	BIOLOGICAL CHEMISTRY LAB	3 [L1]	
BIOL 3525	MOLECULAR BIOLOGY OF DNA LAB	3 [L2]	
BIOL 5255	PROKARYOTIC GENETICS	4 [L2]	
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	
CHEM 5750	ADVANCED CHEMICAL BIOLOGY LAB	2 [L1]	

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COMPLETE 2 5000-LEVEL BIOLOGY COURSES NEEDS TO BE AT LEAST 2 CREDIT HOURS

COU	RSE	TITLE	CREDITS	SEMESTER

COMPLETE AT LEAST 2 ADDITIONAL BIOLOGY LAB COURSES TOTALLING 3 LAB UNITS

COURSE	TITLE	LAB UNITS	SEMESTER

OTHER BIOLOGY COURSES NEEDED FOR THE REQUIRED 42 BIOLOGY HOURS

COURSE	TITLE	CREDITS	SEMESTER