

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 PRIOR TO 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 36 Biology credit hours

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

SCIENCE CORE

COURSE	TITLE	CREDITS	SEMESTER	
	CALCULUS FOR			
MATH 1170	BIOLOGIST I			
OR	OR	4		
MATH 1210	CALCULUS I			
MATH 1180	STATS W/CALCULUS			
OR	FOR BIOLOGIST II	4		
MATH 1220	OR	4		
WATTI 1220	CALCULUS II			
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	

CELL & MOLECULAR EMPHASIS CORE

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3510	BIOLOGICAL CHEMISTRY I	3	

CELL & MOLECULAR EMPHASIS ELECTIVES COMPLETE 1 EMPHASIS ELECTIVE COURSES CANNOT DOUBLE COUNT IN EITHER SECTION

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 3410	ECOLOGY & EVOLUTION	3	
BIOL 3520	BIOLOGICAL CHEMISTRY II	3	
BIOL 5120	GENE EXPRESSION	3	
BIOL 5210	CELL STRUCTURE &	3	

CELL & MOLECULAR EMPHASIS ELECTIVES COMPLETE 1 EMPHASIS ELECTIVE

COURSES CANNOT DOUBLE COUNT IN EITHER SECTION

COURSE	TITLE	CREDITS	SEMESTER
BIOL 5120	GENE EXPRESSION	3	
BIOL 5140	GENOME BIOLOGY	3	
BIOL 5210	CELL STRUCTION &	3	
BIOL 3210	FUNCTION	0	
BIOL 5510	GENES, DEVELOPMENT,	3	
BIOL 3310	& EVOLUTION	0	
CHEM 5810	NANOSCIENCE	3	

CELL & MOLECULAR EMPHASIS ELECTIVES COMPLETE 1 EMPHASIS ELECTIVE COURSES CANNOT DOUBLE COUNT IN EITHER SECTION

COURSE	TITLE	CREDITS	SEMESTER
	GENERAL &		
BIOL 3210	PATHOGENIC	3	
	MICROBIOLOGY		
BIOL 3230	DEVELOPMENTAL	3	
BIOL 3230	BIOLOGY	5	
BIOL 3240	INTRO TO CELLUAR	3	
BIOL 3240	BIOLOGY	5	
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 3410	ECOLOGY & EVOLUTION	3	
BIOL 3520	BIOLOGICAL	3	
BIOL 3320	CHEMISTRY II	3	

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BIOL 3550	PHYSICAL PRINCIPLES IN BIOLOGY	3	
BIOL 5120	GENE EXPRESSION	3	
BIOL 5140	GENOME BIOLOGY	3	
BIOL 5210	CELL STRUCTION &	3	
BIOL 3210	FUNCTION	3	
BIOL 5510	GENES, DEVELOPMENT,	2	
BIOL 3310	& EVOLUTION	3	
CHEM 5810	NANOSCIENCE	3	

CELL & MOLECULAR EMPHASIS ELECTIVES COMPLETE 1 EMPHASIS ELECTIVE

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3515	BIOLOGICAL CHEMISTRY I AB	3 [L1]	
	LAB		
BIOL 3525	MOLECULAR BIOLOGY	3 [L2]	
BIOL 3323	OF A DNA LAB	3 [[2]	
BIOL 5255	PROKARYOTIC GENETICS	4 [L2]	

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

COURSE	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 36 BIOLOGY HOURS

COURSE	TITLE	CREDITS	SEMESTER