

### 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 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**

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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	

## COMPLETE 1 CELL & MOLECULAR ELECTIVE COURSES CANNOT COUNT IN MULTIPLE SECTIONS

COURSE	TITLE	<b>CREDITS</b>	SEMESTER
BIOL 3150	GENOMICS &	3 [L1]	
	BIOINFORMATICS		
BIOL 3210	GENERAL & PATHOGENIC	2	
	MICROBIOLOGY	3	

BIOL 3240	INTRO TO CELLUAR NEUROBIOLOGY	3	
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 3520	BIOLOGICAL CHEMISTRY II	3	
BIOL 3550 OR BIOL 3551	PHYSICAL PRINCIPLES IN BIOLOGY	3	
BIOL 5120	GENE EXPRESSION	3	
BIOL 5210	CELL STRUCTION & FUNCTION	3	
BIOL 5510	GENES, DEVELOPMENT, & EVOLUTION	3	
BIOL 5920	ADVANCED EUKARYOTIC GENETICS	3	

## COMPLETE 1 ECOLOGY, EVOLUTION, AND ENVIRONMENTAL ELECTIVE COURSES CANNOT COUNT IN MULTIPLE SECTIONS

COURSES CANNOT COUNT IN MULTIPLE SECTIONS				
COURSE	TITLE	<b>CREDITS</b>	SEMESTER	
BIOL	GENOMICS &	3 [L1]		
3150	BIOINFORMATICS	3 [L1]		
BIOL 3310	COMP VERTEBRATE	3		
BIOL 3310	MORPHOLOGY	3		
BIOL 3320	COMP PHYSIOLOGY	3		
BIOL 3340	INTRO TO PLANT	3		
BIOL 3340	BIOLOGY	3		
BIOL 3380	EVOL & PHYSIOLOGY	3		
BIOL 3380	BASIS OF HEALTH	3		
BIOL 3430	ANIMAL BEHAVIOR	3		
BIOL 3460	GLOBAL	3		
BIOL 3400	ENVIRONMENTAL ISSUES	3		
BIOL 3470	CONSERVATION BIOLOGY	3		
BIOL 5221	HUMAN EVOLUTIONARY	4 [14]		
BIOL 3221	GENETICS	4 [L1]		
BIOL 5350	ORNITHOLOGY	3		
BIOL 5370	MAMMALOGY	3		
BIOL 5440	URBAN ECOLOGY	3		
BIOL 5460	PLANT ECOLOGY IN A	3		
BIOL 5460	CHANGING WORLD			

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BIOL 5471	QUANTITATIVE MODELS	3	
BIOL 5471	IN EVOL ECOLOGY	5	
BIOL 5480	ENTOMOLOGY	3	
BIOL 5490	ECOSYSTEM ECOLOGY	3	
BIOL 5495	BIOPHYSICAL ECOLOGY	4 [L1]	
BIOL 5510	GENES, DEVELOPMENT,	3	
BIOL 3310	AND EVOLUTION	3	
BIOL 5570	ECOL & EVOL OF	2	
	PARASITES & PATHOGENS	3	

## COMPLETE 1 INTEGRATIVE ORGANISMAL ELECTIVE COURSES CANNOT COUNT IN MULTIPLE SECTIONS

COURSE	TITLE	CREDITS	SEMESTER
	GENERAL AND		
BIOL 3210	PATHOGENIC	3	
	MICROBIOLOGY		
BIOL 3310	COMP VERTEBRATE	3	
BIOL 3310	MORPHOLOGY	3	
BIOL 3320	COMP PHYSIOLOGY	3	
BIOL 3330	BEHAVIORAL	3	
BIOL 3330	NEUROBIOLOGY	5	
BIOL 3340	INTRO TO PLANT	3	
BIOL 3340	BIOLOGY	3	
BIOL 3350	PHYSIOLOGY OF	3	
BIOL 3330	PLANTS	0	
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 5350	ORNITHOLOGY	3	
BIOL 5370	MAMMALOGY	4	
BIOL 5425	MYCOLOGY	4	
BIOL 5480	ENTOMOLOGY	3	
BIOL 5510	GENES, DEVELOPMENT,	3	
BIOL 5510	AND EVOLUTION		

# COMPLETE 1 LAB ELECTIVE COURSE WILL ALSO COUNT IN THE ADDITIONAL BIOLOGY LAB SECTION

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3125	MOLE TOOLS FOR EVOL & POP BIOLOGY	3 [L2]	
BIOL 3205	GENERAL MICROBIOLOGY LAB	1 [L1]	
BIOL 3315	COMP VERTEBRATE MORPH LAB	1 [L1]	
BIOL 3325	COMP PHYSIOLOGY LAB	3 [L2]	
BIOL 3485	CONSERVATION BIOLOGY FIELD LAB	1 [L1]	
BIOL 3515	BIOLOGICAL CHEMISTRY LAB	3 [L1]	
BIOL 3525	MOLECULAR BIOLOGY OF DNA LAB	3 [L2]	
BIOL 3665	FORM, FUNCTION, AND ADAPTATION OF ANIMALS	3 [L2]	
BIOL 5221	HUMAN EVOLUTIONARY GENETICS	4 [L1]	
BIOL 5255	PROKARYOTIC GENETICS	4 [L2]	

	MICROBIAL DIVERSITY,		
BIOL 5275	GENOMICS &	4 [L2]	
	EVOLUTION		
BIOL 5355	ORNITHOLOGY LAB	1 [L1]	
BIOL 5425	MYCOLOGY	4 [L1]	
BIOL 5435	PLANT SYSTEMATICS	4 [L1]	
BIOL 5455	DESERT FIELD ECOLOGY	3 [L1]	
BIOL 5485	ENTOMOLOGY LAB	1 [L1]	
BIOL 5495	BIOPHYSICAL ECOLOGY	4 [L1]	
	ECOL & EVOL OF		
BIOL 5575	PARASITES &	1 [L1]	
	PATHOGENS LAB		
BIOL 5665	COMP PALEOBIOLOGY	3 [L1]	
CHEM 5750	ADV CHEMICAL BIO LAB	2 [L1]	
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\*THE FOLLOWING COURSES CAN COUNT IN BOTH LECTURE AND LAB ELECTIVES: BIOL 5221, 5425, 5495\*

### 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 42 BIOLOGY HOURS

COURSE	TITLE	CREDITS	SEMESTER