

### 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 AN ECOLOGY, EVOLUTION, & ENVIROMENTAL 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**

00:2:102 00:12				
COURSE	TITLE	<b>CREDITS</b>	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	<b>CREDITS</b>	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	

## ECOLOGY, EVOLUTION, & ENVIRONMENTAL EMPHASIS CORE

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 3410	ECOLOGY & EVOLUTION	3	

## ECOLOGY, EVOLUTION, & ENVIRONMENTAL EMPHASIS ELECTIVES COMPLETE 4 EMPHASIS ELECTIVE IF THE LAB COURSE IS 2 OR MORE CREDIT HOURS IT CAN COUNT IN BOTH SECTIONS

BIOL 3125	CAN COUNT IN BOTH SECTIONS				
BIOL 3125	COURSE	TITLE	<b>CREDITS</b>	SEMESTER	
BIOL 3270   MICROBIAL ECOSYSTEMS   3	BIOL 3125	MOL TOOLS FOR EVOL &	2 [1 2]		
BIOL 3310		POP BIOLOGY	3 [LZ]		
BIOL 3310   MORPHOLOGY   3	BIOL 3270	MICROBIAL ECOSYSTEMS	3		
BIOL 3320	DIOL 2210	COMP VERTEBRATE	2		
BIOL 3320	BIOL 3310	MORPHOLOGY	5		
PHYSIOLOGY	BIOI 2220	COMPARATIVE	2		
BIOL 3325	BIOL 3320	PHYSIOLOGY	3		
BIOL 3350	DIOI 222E	COMPARATIVE	2 [1 2]		
BIOL 3380	BIOL 3323	PHYSIOLOGY LAB	3 [LZ]		
BIOL 3380	BIOL 3350	PHYSIOLOGY OF PLANTS	3		
BIOL 3430	BIOI 2200	EVOL & PHYSIO BASIS OF	2		
BIOL 3450	BIOL 3380	HEALTH	3		
BIOL 3450   CONSERVATION   3	BIOL 3430	ANIMAL BEHAVIOR	3		
CONSERVATION   GLOBAL ENVIROMENTAL   ISSUES   SIDUES	BIOI 2450	RAIN FOREST ECOLOGY &	2		
BIOL 3460   ISSUES   3	BIOL 3430	CONSERVATION	3		
SSUES   SISSUES   SISSUE	BIOL 2460	GLOBAL ENVIROMENTAL	2		
BIOL 5140   GENOME BIOLOGY   3	BIOL 3460	ISSUES	3		
BIOL 5221	BIOL 3470	CONSERVATION BIOLOGY	3		
BIOL 5221   GENETICS   4 [L1]	BIOL 5140	GENOME BIOLOGY	3		
BIOL 5255   PROKARYOTIC GENETICS   4 [L2]	PIOI 5221	HUMAN EVOLUTIONARY	4 [1 1]		
BIOL 5270   MICROBIAL ECOSYSTEMS   3	BIOL 3221	GENETICS	4 [[1]		
MICROBIAL DIVERSITY,   GENOMICS, & 4 [L2]   EVOLUTION	BIOL 5255	PROKARYOTIC GENETICS	4 [L2]		
BIOL 5275 GENOMICS, & 4 [L2] EVOLUTION  BIOL 5350 ORNITHOLOGY 3  BIOL 5370 MAMMAOLOGY 3  BIOL 5425 MYCOLOGY 4 [L1]  BIOL 5435 PLANT SYSTEMATICS 4 [L1]  BIOL 5440 URBAN ECOLOGY 3  BIOL 5455 DESERT ECOLOGY FIELD 3 [L1]	BIOL 5270	MICROBIAL ECOSYSTEMS	3		
EVOLUTION         EVOLUTION           BIOL 5350         ORNITHOLOGY         3           BIOL 5370         MAMMAOLOGY         3           BIOL 5425         MYCOLOGY         4 [L1]           BIOL 5435         PLANT SYSTEMATICS         4 [L1]           BIOL 5440         URBAN ECOLOGY         3           BIOL 5455         DESERT ECOLOGY FIELD         3 [11]		MICROBIAL DIVERSITY,			
BIOL 5350         ORNITHOLOGY         3           BIOL 5370         MAMMAOLOGY         3           BIOL 5425         MYCOLOGY         4 [L1]           BIOL 5435         PLANT SYSTEMATICS         4 [L1]           BIOL 5440         URBAN ECOLOGY         3           BIOL 5455         DESERT ECOLOGY FIELD         3 [11]	BIOL 5275	GENOMICS, &	4 [L2]		
BIOL 5370         MAMMAOLOGY         3           BIOL 5425         MYCOLOGY         4 [L1]           BIOL 5435         PLANT SYSTEMATICS         4 [L1]           BIOL 5440         URBAN ECOLOGY         3           BIOL 5455         DESERT ECOLOGY FIELD         3 [11]		EVOLUTION			
BIOL 5425         MYCOLOGY         4 [L1]           BIOL 5435         PLANT SYSTEMATICS         4 [L1]           BIOL 5440         URBAN ECOLOGY         3           BIOL 5455         DESERT ECOLOGY FIELD         3 [L1]	BIOL 5350	ORNITHOLOGY	3		
BIOL 5435         PLANT SYSTEMATICS         4 [L1]           BIOL 5440         URBAN ECOLOGY         3           BIOL 5455         DESERT ECOLOGY FIELD         3 [L1]	BIOL 5370	MAMMAOLOGY	3		
BIOL 5440 URBAN ECOLOGY 3  BIOL 5455 DESERT ECOLOGY FIELD 3 [1.1]	BIOL 5425	MYCOLOGY	4 [L1]		
BIOL 5455 DESERT ECOLOGY FIELD 3 [11]	BIOL 5435	PLANT SYSTEMATICS	4 [L1]		
I BIOI 5455 I I 3 II 1 I	BIOL 5440	URBAN ECOLOGY	3		
DIOF 2422   SOURCE   2 [TT]	RIOI 5455	DESERT ECOLOGY FIELD	2 [11]		
COURSE	DIOL 3433	COURSE	2 [L1]		
BIOL 5460 PLANT ECOLOGY IN A 3	BIOI 5460	PLANT ECOLOGY IN A	2		
CHANGING WORLD 3	BIOL 5460	CHANGING WORLD	3		

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BIOL 5471	QUANTITATIVE MODELS IN EVOL ECOLOGY	3	
BIOL 5480	ENTOMOLOGY	3	
BIOL 5490	ECOSYSTEM ECOLOGY	3	
BIOL 5495	BIOPHYSICAL ECOLOGY	3 [L1]	
BIOL 5510	GENES, DEVELOPMENT, & EVOLUTION	3	
BIOL 5570	ECOL & EVOL PARASITES & PATHOGENS	3	
BIOL 5910	MATHEMATICAL MODELS IN BIOLOGY	3	

# ECOLOGY, EVOLUTION, & ENVIRONMENTAL EMPHASIS ELECTIVES COMPLETE 1 EMPHASIS LABS IF THE LAB COURSE IS 2 OR MORE CREDIT HOURS IT CAN COUNT IN BOTH SECTIONS

CAN COUNT IN BOTT SECTIONS				
COURSE	TITLE	<b>CREDITS</b>	SEMESTER	
BIOL 3125	MOL TOOLS FOR EVOL & POP BIOLOGY	3 [L2]		
BIOL 3315	COMP VERTEBRATE MORPHOLOGY LAB	1 [L1]		
BIOL 3325	COMPARATIVE PHYSIOLOGY LAB	3 [L2]		
BIOL 3485	CONSERVATION BIOLOGY FIELD LAB	1 [L1]		
BIOL 5221	HUMAN EVOLUTIONARY GENETICS	4 [L1]		
BIOL 5255	PROKARYOTIC GENETICS	4 [L2]		
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS, & EVOLUTION	4 [L2]		
BIOL 5355	ORNITHOLOGY FIELD LAB	1 [L1]		
BIOL 5425	MYCOLOGY	4 [L1]		
BIOL 5435	PLANT SYSTEMATICS	4 [L1]		
BIOL 5455	DESERT ECOLOGY FIELD COURSE	3 [L1]		
BIOL 5485	ENTOMOLOGY LAB	1 [L1]		
BIOL 5495	BIOPHYSICAL ECOLOGY	3 [L1]		
BIOL 5575	ECOL & EVOL PARASITES & PATHOGENS LAB	1 [L1]		

## 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

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