BACHELOR OF SCIENCE OR ARTS IN BIOLOGY WITH AN ECOLOGY, EVOLUTION, AND ENVIRONMENT EMPHASIS STARTING FALL 2019



IMPORTANT INFORMATION TO REMEMBER

Use this sheet and the Master List of Biology Courses with your Degree Audit to schedule your courses in a logical and functional sequence. YOU are responsible for ensuring that <u>ALL</u> requirements are met for the major AND that you have fulfilled ALL university requirements. Pay special attention when repeating courses and class time conflicts.

Students must complete a minimum of 40 upper division hours (3000+)

Students must complete a minimum of 72 Science hours

Students must complete a minimum of 36 Biology credit hours

Students must complete 21 Biology residency hours that must be taken at the U

REQUIRED SCIENCE CORE COURSES

COURSETITLECREDITSSEMESTEMATH 1170CALCULUS FOR BIOLOGISTS IAOROR4MATH 1210CALCULUS IMATH 1180STATISTICS WITH CALCULUS FOR BIOLOGISTSORORAMATH 1220CALCULUS II
OR OR 4 MATH 1210 CALCULUS I 4 MATH 1180 STATISTICS WITH CALCULUS FOR BIOLOGISTS 4 OR OR 4
MATH 1210 CALCULUS I MATH 1180 STATISTICS WITH CALCULUS FOR BIOLOGISTS OR 4
MATH 1180 STATISTICS WITH CALCULUS FOR BIOLOGISTS OR OR 4
OR OR 4
MATH 1220 CALCULUS II
CHEM 1210 GENERAL CHEMISTRY I 4
CHEM 1215 GENERAL CHEMISTRY LAB I 1
CHEM 1220 GENERAL CHEMISTRY II 4
CHEM 1225 GENERAL CHEMISTRY LAB II 1
CHEM 2310 ORGANIC CHEMISTRY I 4
PHYS 2010 GENERAL PHYSICS I 4
PHYS 2020 GENERAL PHYSICS II 4

REQUIRED FUNDAMENTAL BIOLOGY COURSES

COURSE	TITLE	CREDITS	SEMESTER
BIOL 1610	FUNDAMENTAL PRINCIPLES OF BIOLOGY I	4	
BIOL 1615	FUNDAMENTAL PRINCIPLES OF BIOLOGY LAB I	1	
BIOL 1620	FUNDAMENTAL PRINCIPLES OF BIOLOGY II	4	
BIOL 1625	FUNDAMENTAL PRINCIPLES OF BIOLOGY LAB II	1	

EMPHASIS CORE COURSES

COURSE	TITLE	CREDITS	SEMESTER
BIOL 2020	PRINCIPLES OF CELL BIOLOGY	3	
OR	OR	OR	
BIOL 2021	PRINCIPLES OF CELL SCIENCE (HONORS)	4	
BIOL 2030	PRINCIPLES OF GENETICS	3	
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 3410	ECOLOGY & EVOLUTION	3	

COMPLETE 1 TAXONOMIC FOCUS ELECTIVE COURSE COURSES CANNOT DOUBLE COUNT IN ELECTIVE SECTIONS

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3310	COMPARATIVE VERTEBRATE MORPHOLOGY	3	
BIOL 3315	COMPARATIVE VERTEBRATE MORPHOLOGY LAB	1 [L1]	
BIOL 3320	COMPARATIVE PHYSIOLOGY	3	
BIOL 3325	COMPARATIVE PHYSIOLOGY LAB	3 [L2]	
BIOL 3350	PHYSIOLOGY OF PLANTS	3	
BIOL 3665	FORM, FUNCTION & ADAPTATION OF ANIMALS	3 [L2]	
BIOL 5425	MYCOLOGY	4 [L1]	
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	
BIOL 5370	MAMMALOGY	3	
BIOL 5435	PLANT SYSTEMATICS	4 [L1]	
BIOL 5480		3	
OR	ENTOMOLOGY	OR	
BIOL 5445		4 [L1]	
BIOL 5460	PLANT ECOLOGY IN A CHANGING WORLD	3	
BIOL 5555 OR	ECOLOGY & EVOLUTION OF PARASITES & PATHOGENS	3	
BIOL 5570		5	

COMPLETE 1 ECOLOGICAL & CONSERVATION FOCUS ELECTIVE COURSE COURSES CANNOT DOUBLE COUNT IN ELECTIVE SECTIONS

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3270	MICROBIAL ECOSYSTEMS	3	
BIOL 3430	BEHAVIORAL ECOLOGY	3	
BIOL 3460	GLOBAL ENVIRONMENTAL ISSUES	3	
BIOL 3470	CONSERVATION BIOLOGY	3	
BIOL 3485	CONSERVATION BIOLOGY FIELD LAB	1 [L1]	
BIOL 5270	MICROBIAL ECOSYSTEMS	3	
BIOL 5425	MYCOLOGY	4 [L1]	
BIOL 5370	MAMMALOGY	3	
BIOL 5350	ORNITHOLOGY	3	

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BIOL 5440	URBAN ECOLOGY	3	
BIOL 5455	DESERT ECOLOGY FIELD COURSE	3 [L1]	
BIOL 5460	PLANT ECOLOGY IN A CHANGING WORLD	3	
BIOL 5480		3	
OR	ENTOMOLOGY	OR	
BIOL 5445		4	
BIOL 5490	ECOSYSTEM ECOLOGY	3	
BIOL 5495	BIOPHYSICAL ECOLOGY	4 [L1]	
BIOL 5555			
OR	ECOLOGY & EVOLUTION OF PARASITES & PATHOGENS	3	
BIOL 5570			

COMPLETE 1 EVOLUTION FOCUS ELECTIVE COURSE COURSES CANNOT DOUBLE COUNT IN ELECTIVE SECTIONS

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COURSE	TITLE	CREDITS	SEMESTER
BIOL 3125	MOLECULAR TOOLS FOR EVOL & POP BIOLOGY	3 [L2]	
BIOL 3380	EVOLUTION & PHYSIOLOGY BASIS OF HEALTH	3	
BIOL 3430	BEHAVIORAL ECOLOGY	3	
BIOL 5140	GENOME BIOLOGY	3	
BIOL 5221	HUMAN EVOLUTIONARY GENETICS	4 [L1]	
BIOL 5255	PROKARYOTIC GENETICS	3 [L2]	
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	
BIOL 5350	ORNITHOLOGY	3	
BIOL 5355	ORNITHOLOGY FIELD LAB	1 [L1]	
BIOL 5370	MAMMALOGY	3	
BIOL 5425	MYCOLOGY	4 [L1]	
BIOL 5435	PLANT SYSTEMATICS	4 [L1]	
BIOL 5471	QUANTITATIVE MODELS IN EVOLUTIONARY BIOLOGY	3	
BIOL 5480	ENTOMOLOGY	3	
BIOL 5510	EVOLUTIONARY DEVELOPMENTAL BIOLOGY	3	
BIOL 5555	ECOLOGY & EVOLUTION OF PARASITES & PATHOGENS	3 [L1]	
BIOL 5665	COMPUTATIONAL PALEOBIOLOGY	3 [L1]	
BIOL 5910	MATHEMATICAL MODELS IN BIOLOGY	3	

COMPLETE 1 ENVIRONMENT FOCUS ELECTIVE COURSE COURSES CANNOT DOUBLE COUNT IN ELECTIVE SECTIONS

	COURSE	TITLE	CREDITS	SEMESTER
Ē	BIOL 3450	RAINFOREST ECOLOGY & CONSERVATION	3	
	BIOL 3460	GLOBAL ENVIRONMENTAL ISSUES	3	
	BIOL 3470	CONSERVATION BIOLOGY	3	
	BIOL 3485	CONSERVATION BIOLOGY LAB	1 [L1]	
Ē	BIOL 5440	URBAN ECOLOGY	3	

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BIOL 5460	PLANT ECOLOGY IN A CHANGING WORLD		3			
	COMPLETE 2 5000-LEVEL BIOLOGY COURSES					
COURSE	TITLE	C	REDITS	SEMESTER	R	
BIOL 5						
BIOL 5						

COMPLETE AT LEAST 2 ADDITIONAL BIOLOGY LAB COURSES

	TOTALLING 5 LAD ONITS		
COURSE	TITLE	LAB UNITS	SEMESTER

OTHER BIOLOGY COURSES NEEDED FOR THE REQUIRED 36 BIOLOGY HOURS OR REQUIRED 72 SCIENCE HOURS

COURSE	TITLE	CREDITS	SEMESTER