School of BIOLOGICAL SCIENCES
COLLEGE OF SCIENCE | THE UNIVERSITY OF UTAH

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STARTING FALL 2019

BACHELOR OF SCIENCE OR ARTS IN BIOLOGY

WITH AN ECOLOGY, EVOLUTION, AND ENVIRONMENT EMPHASIS

REQUIRED SCIENCE CORE COURSES

COURSE	TITLE	CREDITS	SEMESTER
MATH 1170 OR MATH 1210	CALCULUS FOR BIOLOGISTS I OR CALCULUS I	4	
MATH 1180 OR MATH 1220	STATISTICS WITH CALCULUS FOR BIOLOGISTS OR CALCULUS II	4	
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 OR BIOL 2021	PRINCIPLES OF CELL BIOLOGY OR PRINCIPLES OF CELL SCIENCE (HONORS)	3 OR 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 5425	MYCOLOGY	4 [L1]	
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	
BIOL 5365	FORM, FUNCTION & ADAPTATION OF PLANTS	4 [L1]	
BIOL 5370	MAMMALOGY	3	
BIOL 5435	PLANT SYSTEMATICS	4 [L1]	
BIOL 5480	ENTOMOLOGY	3	
BIOL 5460	PLANT ECOLOGY IN A CHANGING WORLD	3	
BIOL 5555	ECOLOGY & EVOLUTION OF PARASITES & PATHOGENS	3 [L1]	

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 5345	NATURAL HISTORY OF THE COLORADO PLATEAU	3 [L1]	
BIOL 5365	FORM, FUNCTION & ADAPTATION OF PLANTS	4 [L1]	
BIOL 5425	MYCOLOGY	4 [L1]	
BIOL 5370	MAMMALOGY	3	
BIOL 5350	ORNITHOLOGY	3	
BIOL 5440	URBAN ECOLOGY	3	
BIOL 5455	DESERT ECOLOGY FIELD COURSE	3 [L1]	

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BIOL 5460	PLANT ECOLOGY IN A CHANGING WORLD	3	
BIOL 5480	ENTOMOLOGY	3	
BIOL 5490	ECOSYSTEM ECOLOGY	3	
BIOL 5495	BIOPHYSICAL ECOLOGY	4 [L1]	
BIOL 5555	ECOLOGY & EVOLUTION OF PARASITES & PATHOGENS	3 [L1]	

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

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 5910	MATHEMATICAL MODELS IN BIOLOGY	3	

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

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3450	RAINFOREST ECOLOGY & CONSERVATION	3	
BIOL 3460	GLOBAL ENVIRONMENTAL ISSUES	3	
BIOL 3470	CONSERVATION BIOLOGY	3	
BIOL 3485	CONSERVATION BIOLOGY LAB	1 [L1]	
BIOL 5440	URBAN ECOLOGY	3	
BIOL 5460	PLANT ECOLOGY IN A CHANGING WORLD	3	

COMPLETE 2 5000-LEVEL BIOLOGY COURSES

COURSE	TITLE	CREDITS	SEMESTER
BIOL 5_____			
BIOL 5_____			

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

COURSE	TITLE	LAB UNITS	SEMESTER
BIOL 1615	FUNDAMENTAL PRINCIPLES OF BIOLOGY LAB I	1	
BIOL 1625	FUNDAMENTAL PRINCIPLES OF BIOLOGY LAB II	1	

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

COURSE	TITLE	CREDITS	SEMESTER

IMPORTANT INFORMATION TO REMEMBER

Use this sheet and the Master List of Biology Courses with your Degree Dashboard to schedule your courses in a logical and functional sequence. YOU are responsible for ensuring that ALL 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

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