

ATTENTION:
Changes to the course schedule/repeated coursework may affect your plan. **YOU** 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, & ENVIRONMENTAL EMPHASIS
PRIOR TO FALL 2024**

IMPORTANT INFORMATION TO REMEMBER:
Students **MUST** complete a minimum of 40 Upper Division Hours (3000+ level courses)
Students **MUST** complete a minimum of 36 Biology credit hours
Students **MUST** complete 21 Biology Residency Hours that **MUST** 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

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	

**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**

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3125	MOL TOOLS FOR EVOL & POP BIOLOGY	3 [L2]	
BIOL 3270	MICROBIAL ECOSYSTEMS	3	
BIOL 3310	COMP VERTEBRATE MORPHOLOGY	3	
BIOL 3320	COMPARATIVE PHYSIOLOGY	3	
BIOL 3325	COMPARATIVE PHYSIOLOGY LAB	3 [L2]	
BIOL 3350	PHYSIOLOGY OF PLANTS	3	
BIOL 3380	EVOL & PHYSIO BASIS OF HEALTH	3	
BIOL 3430	ANIMAL BEHAVIOR	3	
BIOL 3450	RAIN FOREST ECOLOGY & CONSERVATION	3	
BIOL 3460	GLOBAL ENVIRONMENTAL ISSUES	3	
BIOL 3470	CONSERVATION BIOLOGY	3	
BIOL 5140	GENOME BIOLOGY	3	
BIOL 5221	HUMAN EVOLUTIONARY GENETICS	4 [L1]	
BIOL 5255	PROKARYOTIC GENETICS	4 [L2]	
BIOL 5270	MICROBIAL ECOSYSTEMS	3	
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS, & EVOLUTION	4 [L2]	
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 COURSE	3 [L1]	
BIOL 5460	PLANT ECOLOGY IN A CHANGING WORLD	3	

(801) 587-0639

bioadvising@utah.edu

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	

**OTHER BIOLOGY COURSES NEEDED FOR THE
REQUIRED 36 BIOLOGY HOURS**

COURSE	TITLE	CREDITS	SEMESTER

**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**

COURSE	TITLE	CREDITS	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 TOTTALLING 3 LAB UNITS**

COURSE	TITLE	LAB UNITS	SEMESTER

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