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

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 A CELL & MOLECULAR EMPHASIS

IMPORTANT INFORMATION TO REMEMBER:
Students MUST complete a minimum of 40 Upper Division Hours (3000+ level courses)
Students MUST complete a minimum of 42 Biology credit hours
Students MUST complete a minimum 20 Upper Division Biology Hours (3000+ level courses)
Students MUST complete 21 Biology Residency Hours that MUST be taken at the U
2 Upper Division Biology Labs (3000+ level courses) MUST be completed at the U
ALL major courses MUST be completed with a C- or better

SCIENCE CORE
ALL COURSES REQUIRED

COURSE	TITLE	CREDITS	SEMESTER
MATH 1170 OR MATH 1210 OR MATH 1215	CALCULUS FOR BIOLOGIST I OR CALCULUS I OR CALCULUS I & TRIG	4 OR 4 OR 5	
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
ALL COURSES REQUIRED

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 OR BIOL 3411	ECOLOGY & EVOLUTION OR ECOLOGY & EVOLUTION (HONORS)	3 OR 4	
BIOL 3510	BIOLOGICAL CHEMISTRY	3	

EMPHASIS REQUIRED COURSES
COMPLETE 3 EMPHASIS ELECTIVES

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3150	GENOMICS & BIOINFORMATICS	3 [L1]	
BIOL 3200 OR BIOL 3210	GENERAL & PATHOGENIC 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 STRUCTURE AND FUNCTION	3	
BIOL 5510	GENES, DEVLOPMENT & EVOLUTION	3	
BIOL 5920	ADVANCE EUKARYOTIC GENETICS	3	

COMPLETE 1 REQUIRED EMPHASIS LAB
COURSE WILL ALSO COUNT IN THE ADDITIONAL
UPPER DIVISION BIOLOGY LAB SECTION

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3125	MOL TOOLS FOR EVO & POPULATION BIOLOGY	3 [L2]	
BIOL 3205	GENERAL MICROBIOLOGY LAB	1 [L1]	
BIOL 3515	BIOLOGICAL CHEMISTRY LAB	3 [L1]	
BIOL 3525	MOLECULAR BIOLOGY OF DNA LAB	3 [L2]	
BIOL 5255	PROKARYOTIC GENETICS	4 [L2]	

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BIOL 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	
CHEM 5750	ADVANCED CHEMICAL BIOLOGY LAB	2 [L1]	

COMPLETE 2 5000-LEVEL BIOLOGY COURSES
NEEDS TO BE AT LEAST 2 CREDIT HOURS

COURSE	TITLE	CREDITS	SEMESTER

COMPLETE AT LEAST 2 ADDITIONAL UPPER DIVISION BIOLOGY LAB COURSE (3000+ LEVEL)

COURSE	TITLE	CREDITS	SEMESTER

OTHER BIOLOGY COURSES NEEDED FOR THE REQUIRED 42 BIOLOGY HOURS

COURSE	TITLE	CREDITS	SEMESTER

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