

Bachelor of Science in Biology Education Worksheet & Pre-Requisites —2017-18

Course #	Course title	CR	Offered	Pre-Requisites
BIOL COMMON CORE				
BIOL 1610/1615	General Biology I/Lab	3/1	F/S	
BIOL 1620/1625	General Biology II/Lab	3/1	F/S	BIOL 1610/1615
BIOL 3010/3015	General Microbiology/Lab	3/1	F/S	BIOL 1610/1615
BIOL 3030/3035	Ecology/Lab	3/1	Fall	MATH 1040 BIOL 1620/1625
BIOL 3060/3065	Genetics/Lab	3/1	Spring	BIOL 1620/25 & CHEM 1110 OR 1210
BIOL 3110	Evolution	3	F/S	BIOL 3030 & 3060
BIOLOGY TEACHING CORE				
BIOL 4900	Biology Teaching Methods	3		
BIOL 4980	Student Teaching	2		
BIOLOGY REQUIREMENTS	Choose 16-18 credits from the following			
BIOL 1020/1025	Human Biology/Lab	3/1	F/S	
BIOL 2420/2425	Human Physiology/Lab	3/1	F/S	BIOL 1610
BIOL 2320/2325	Human Anatomy/Lab	3/1	F/S	
BIOL 3250/3255	Histology/Lab	3/1	Fall	BIOL 1610/15 & 1620/25
BIOL 3270/3275	Vertebrate Physiology	3/1	Spring	MATH 1040 BIOL 1610/15, 1620/25
BIOL 3290/3295	Developmental Biology/Lab	3/1	Spring	BIOL 1610/15, 1620/25, 3630/35
BIOL 3310/3315	Cell & Molecular Biology/Lab	3/1	Spring	BIOL 3060/3065
BIOL 3350	Immunology	3	F-odd	BIOL 3060
BIOL 3390/3395	Mammalogy/Lab	3/1	F-odd	BIOL 3030/35
BIOL 3410/3415	Invertebrate Zoology	3/1	F-even	BIOL 3030/35
BIOL 3430/3435	Entomology/Lab	3/1	F-odd	BIOL 3030/35
BIOL 3450/3455	Comparative Vertebrate Studies/Lab	3/1	Spring	BIOL 3110
BIOL 3370/3375	Ichthyology/Lab	3/1	S-even	BIOL 3030/35
BIOL 3470/3475	Herpetology/Lab	3/1	F-even	BIOL 3030/35
BIOL 3490/3495	Ornithology/Lab	3/1	S-odd	BIOL 3030/35
BIOL 3510/3515	Plant Anatomy & Diversity/Lab	3/1	F-odd	BIOL 1620/25
BIOL 3520	Fungi and Plant Pathology	3	S-odd	BIOL 3030/35
BIOL 3530/3535	Plant Physiology/Lab	3/1	F-even	BIOL 1620/25
BIOL 3550/3555	Plant Taxonomy/Lab	3/1	S-even	BIOL 1620/25
BIOL 3630/3635	Freshwater Biology/Lab	3/1	Fall ?	BIOL 3030/35
BIOL 4070	Capstone: History & Literature of Biology	3	S-even	BIOL 3110 comp of ETS Field Exam
BIOL 4220	Capstone: Plant Defenses and Medical Botany	3	S-odd	BIOL 3110 comp of ETS Field Exam
BIOL 4400	Neurobiology	3	F-odd	BIOL 3270/75
BIOL 4410	Animal Behavior	3	Fall	MATH 1040, BIOL 3110 comp of ETS Field Exam
BIOL 4500	Capstone: Biology of Disease	3	F-even	BIOL 3060 comp of ETS Field Exam
BIOL 4650	Capstone: Conservation Biology	3	Spring	BIOL 3110 comp of ETS Field Exam
CHEM 1110/1115 or CHEM 1120/1125	Elementary Chemistry/Lab	3/1	F/S/Su	MATH 1010 or higher
	Elementary Organic Bio-Chemistry	5/1	F/S/Su	CHEM 1110/15
OR	RECOMMENDED FOR ADVANCED DEGREES			
CHEM 1210/1215	Principles of Chemistry I/Lab	4/1	F/S/Su	MATH 1050 or 2 yrs of HS algebra
CHEM 1220/1225	Principles of Chemistry II/Lab	4/1	S/Su	CHEM 1210/15
CHEM 2310/2315	Organic Chemistry I/Lab	4/1	F/Su	CHEM 1220/1225
CHEM 2320/2325	Organic Chemistry II/Lab	4/1	S/Su	CHEM 2310/15
REQUIRED SUPPORT				
MATH 1040	Statistics	4	F/S/Su	Math ACT 21 or MATH 1010 or MATH 0990
MATH 1210	Calculus I	4	F/S/Su	Math ACT 26 or C in MATH 1050 & 1060
Additional Coursework				
	Additional coursework in computer science, geology and physics selected in consultation with the departmental advisor			
See Licensure requirements				