

**BACHELOR OF SCIENCE IN BIOLOGY TEACHING
STARTING FALL 2021**



REQUIRED SCIENCE CORE COURSES (30-37 CR)

COURSE	TITLE	CREDITS
MATH 1050 & MATH 1060 OR MATH 1080	COL ALGEBRA (4) & TRIGONOMETRY (3) OR PRECALCULUS	7 OR 5
MATH 1170 OR MATH 1210	CALCULUS FOR BIOLOGISTS I OR CALCULUS I	4
MATH 1180 OR MATH 1220	STATISTICS WITH CALCULUS FOR BIOLOGIST OR CALCULUS II	4
CHEM 1210	GENERAL CHEMISTRY I	4
CHEM 1225	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 BIOLOGY COURSES (26 CR)

COURSE	TITLE	CREDITS
BIOL 1610	FUND PRINC OF BIOLOGY I	3
BIOL 1615	FUND PRINC OF BIOLOGY LAB I	1
BIOL 1620	FUND PRINC OF BIOLOGY II	3
BIOL 1625	FUND PRINC OF BIOLOGY LAB II	1
BIOL 2020	PRINC OF CELL BIOLOGY	3
BIOL 2030	PRINCIPLES OF GENETICS	3

BIOL 3410	ECOL & EVOL	3
BIOL 3510	BIOCHEMISTRY I	3
BIOL 3310 OR BIOL 5350 OR BIOL 5370	COMPARATIVE VERTEBRATE MORPHOLOGY OR ORNITHOLOGY OR MAMMALOLOGY	3
BIOL 2325 OR BIOL 2420	HUMAN ANATOMY OR PHYSIOLOGY	4

COMPLETE 1 CELL AND MOLECULAR BIOLOGY LAB COURSE (2-3 CR)

COURSE	TITLE	CREDITS
BIOL 3125	MOL EVOL LAB*	3
BIOL 3215	CELL BIOL LAB	2
BIOL 3235	DEVELOP LAB	2
BIOL 3246	CELL NEURO LAB	2
BIOL 3515	BIOL CHEM LAB	2
BIOL 2525	MBIOL DNA LAB	3
BIOL 4955	INDIVIDUAL RESEARCH*	2-3

*Can only be counted once.

COMPLETE 1 ENVIRONMENTAL & ORGANISMAL BIO LAB COURSE (1-3 CR)

COURSE	TITLE	CREDITS
BIOL 2355	FIELD BOTANY	2
BIOL 2425	HUMAN PHYS LAB	1
BIOL 3125	MOL EVOL LAB*	2
BIOL 3246	CELL NEURO LAB	3
BIOL 3325	COMP PHYS LAB	3
BIOL 4955	INDIVIDUAL RESEARCH*	2-3

*Can only be counted once.

COMPLETE 1 UPPER DIVISION BIOLOGY ELECTIVE (3-4 CR)

COURSE	TITLE	CREDITS
BIOL 3XXX-5XXX	Rec 3550, 5471, 5495,5665, or 5910 for QI	3-4

(801) 587-0639
bioadvising@utah.edu

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COMPLETE 1 ADVANCED OR APPLIED CHEMISTRY ELECTIVE (3-4 CR)

COURSE	TITLE	CREDITS
CHEM 3XXX-5XXX OR GEO 2100 OR BIOL 3520	CHEM 3XXX-5XXX OR REACTIVE EARTH OR BIOLOGICAL CHEMISTRY II	3-4

**COMPLETE 1 SCIENCE ELECTIVE FROM EACH GROUP FOR USBE
ENDORSEMENT IN ENVIRONMENTAL SCIENCE (OPTIONAL) (6 CR)**

COURSE	TITLE	CREDITS
GEO 1010 OR GEO 1100 OR GEO 3030	EXPLORING EARTH OR EVOLVING EARTH OR INTRO TO EARTH SYSTEMS OR EARTHQUAKES & VOLCANOS (IR)	3
ATMOS 1010 OR ATMOS 1020 OR GEO 3800	SEVERE & UNUSUAL WEATHER OR CLIMATE CHANGE OR THE OCEANS	3

REQUIRED EDUCATION COURSES (17-18 CR)

COURSE	TITLE	CREDITS
EDU 1010 OR SCI 3670 OR SCI 5050	INTRO TO TEACHING OR SCIENCE COMM & MENTORING OR SCIENCE OF LEARNING	2-3

ETHNC 2550 OR ETHNC 2570 OR ETHNC 2580 OR ETHNC 2590	AFRICAN AMER EXP (HF) OR AMER INDIAN EXP (HF) OR ASIAN PACIFIC AMER EXP (BF) OR PACIFIC ISLANDER EXP (HF)	3
ECS 2150 OR SCI 3900	INTRO TO MULTICULTURAL ED OR HUMANS IN STEM	3
EDPS 3721	ADOLESCENT PSYCHOLOGY	3
EDU 5375	SCIENCE METHODS	3
ECS 5709	BUILDING FAMILY PARTNERSHIPS (32 field hours required)	3

**OPTIONAL ELECTIVES FOR COMPLETION OF ENGLISH AS A SECOND
LANGUAGE (ESL) ENDORSEMENT (9 CR)**

COURSE	TITLE	CREDITS
EDU 5200	TEACHER LANGUAGE AWARENESS	3
ECS 5645	ASSESSMENT OF LINGUISTICALLY DIVERSE POPULATIONS (PR: ECS 2150, EDU 5200, SPED 5021)	3
ECS 5647	INSTRUCTIONAL METHODS FOR LINGUISTICALLY DIVERSE POPULATIONS (PR: EDU 5200, ECS 5645)	3 (16 HRS FIELD)

*ESL ENDORSEMENT REQUIRED TO TEACH IN GRANITE AND SALT LAKE CITY SCHOOL DISTRICTS. CAN BE TAKEN AFTER HIRE.

NOTE: This plan of study fulfills USBE requirements for teaching endorsements in Biology and Chemistry, with options for endorsement in Environmental Science and English as a Second Language. Students must also complete all General Education and Bachelor's degree requirements in order to graduate