

THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A SUBJECT ENDORSEMENT IN BIOLOGY (GRADES 7-12)

¹ CHEM 131 COLLEGE CHEMISTRY I/CHEM 131L COLLEGE CHEMISTRY I LAB and CHEM 132 COLLEGE CHEMISTRY II/CHEM 132L COLLEGE CHEMISTRY II LAB may be substituted. See Biology advisor.

Students interested in pursuing science education should also reference the Secondary Field Endorsement - Science, middle level specialization, and elementary science minor under Physical Sciences.

A student must complete the following program in addition to the Professional Education, and Essential Studies Program requirements. It is strongly recommended that students pursuing this endorsement complete MATH 138 APPLIED CALCULUS as the Essential Studies Outcome #4 requirement and GEOS 437 WORLD ENVIRONMENTAL ISSUES as the Essential Studies Outcome #9 requirements. Students should also consider BIOL 439 PLANT PHYSIOLOGY/BIOL 439L PLANT PHYSIOLOGY LAB, and BIOL 343 PARASITOLOGY/BIOL 343L PARASITOLOGY LAB or BIOL 456 PATHOGENIC MICROBIOLOGY/BIOL 456L PATHOGENIC MICROBIOLOGY LAB. A final grade of "C" or better must be attained in all endorsement area courses. To obtain a departmental recommendation, the student must complete a minimum of 9 credit hours from Chadron State College in BIOL, CHEM, GEOS, or PHYS.

Code	Title	Credits
Essential Studies (http://catalog.csc.edu/undergraduate/essential-studies-program/)		
Professional Education Courses (http://catalog.csc.edu/secondary-education-requirements/)		
Core Requirements		
BIOL 138 & 138L	GENERAL BIOLOGY: BOTANY and GENERAL BIOLOGY: BOTANY LABORATORY	4
BIOL 139 & 139L	GENERAL BIOLOGY: ZOOLOGY and GENERAL BIOLOGY: ZOOLOGY LABORATORY	4
BIOL 241 & 241L	MICROBIOLOGY and MICROBIOLOGY LABORATORY	4
BIOL 314	BIOTECHNOLOGY	3
BIOL 320	SUPERVISED STUDY IN LAB AND FIELD METHODS	1
BIOL 332 & 332L	GENETICS and GENETICS LABORATORY	4
BIOL 336 & 336L	GENERAL ECOLOGY and GENERAL ECOLOGY LAB	3
BIOL 339 & 339L	COMPARATIVE ANATOMY AND PHYSIOLOGY and COMPARATIVE ANATOMY AND PHYSIOLOGY LABORATORY	4
BIOL 499	BIOLOGY CAPSTONE	3
CHEM 140 & 140L	SURVEY OF CHEMISTRY and SURVEY OF CHEMISTRY LAB ¹	4
CHEM 320	SUPERVISED STUDY IN LAB AND FIELD METHODS	1
GEOS 231 & 231L	PHYSICAL GEOLOGY and PHYSICAL GEOLOGY LAB	4
PHYS 151 & 151L	COLLEGE PHYSICS I and COLLEGE PHYSICS I LAB	4
Total Credits		43