

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

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 232 APPLIED STATISTICS as the Essential Studies Mathematics category requirement and GEOS 437 WORLD ENVIRONMENTAL ISSUES as the Essential Studies Ethics and Civic Affairs category requirement. Students should also consider BIOL 439 PLANT PHYSIOLOGY/BIOL 439L PLANT PHYSIOLOGY LABORATORY, and BIOL 343 PARASITOLOGY/BIOL 343L PARASITOLOGY LABORATORY or BIOL 456 PATHOGENIC MICROBIOLOGY/BIOL 456L PATHOGENIC MICROBIOLOGY LABORATORY. 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 ( <a href="https://catalog.csc.edu/undergraduate/essential-studies-program/">https://catalog.csc.edu/undergraduate/essential-studies-program/</a> )		
Professional Education Courses ( <a href="https://catalog.csc.edu/secondary-education-requirements/">https://catalog.csc.edu/secondary-education-requirements/</a> )		
Core Requirements		
BIOL 101 & 101L	GENERAL BIOLOGY I and GENERAL BIOLOGY I LABORATORY	4
BIOL 102 & 102L	GENERAL BIOLOGY II and GENERAL BIOLOGY II LABORATORY	4
BIOL 121 & 121L	HUMAN BIOLOGY and HUMAN BIOLOGY LABORATORY <sup>1</sup>	3
BIOL 241 & 241L	MICROBIOLOGY and MICROBIOLOGY LABORATORY	4
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 LABORATORY	3
BIOL 458	BIOLOGICAL EVOLUTION	3
BIOL 499	BIOLOGY CAPSTONE	3
CHEM 320	SUPERVISED STUDY IN LAB AND FIELD METHODS	1
Select 3 credits of the following: 3		
BIOL 237	ENVIRONMENTAL SCIENCE	
BIOL 240 & 240L	ANATOMY AND PHYSIOLOGY I and ANATOMY AND PHYSIOLOGY I LABORATORY	
BIOL 243 & 243L	BOTANY and BOTANY LABORATORY	
BIOL 244 & 244L	ZOOLOGY and ZOOLOGY LABORATORY	

BIOL 339 & 339L	COMPARATIVE ANATOMY AND PHYSIOLOGY and COMPARATIVE ANATOMY AND PHYSIOLOGY LABORATORY	
BIOL 401 & 401L	ORNITHOLOGY and ORNITHOLOGY LABORATORY	
BIOL 427	BIOLOGY OF POPULATIONS	
BIOL 431 & 431L	ENTOMOLOGY and ENTOMOLOGY LABORATORY	
BIOL 438 & 438L	TAXONOMY OF PLANTS and TAXONOMY OF PLANTS LABORATORY	
BIOL 444 & 444L	FRESHWATER ECOLOGY and FRESHWATER ECOLOGY LABORATORY	
Select 4 credits of the following:		4
CHEM 131 & 131L	COLLEGE CHEMISTRY I and COLLEGE CHEMISTRY I LABORATORY	
CHEM 140 & 140L	SURVEY OF CHEMISTRY and SURVEY OF CHEMISTRY LAB	
Select 3 credits from the following:		3
GEOS 130	EARTH SCIENCE	
GEOS 132	NATURAL HAZARDS AND DISASTERS	
GEOS 135	PHYSICAL SCIENCE	
GEOS 137	ENVIRONMENTAL GEOLOGY	
GEOS 138 & 138L	ASTRONOMY and ASTRONOMY LABORATORY	
Select 4 additional credits from CHEM, GEOS, or PHYS		4
<b>Total Credits</b>		<b>44</b>

<sup>1</sup> BIOL 240/240L HUMAN ANATOMY & PHYSIOLOGY and HUMAN ANATOMY & PHYSIOLOGY LABORATORY or BIOL 340/340L HUMAN ANATOMY and GROSS ANATOMY LABORATORY could be substituted for BIOL 121/121L.

Students interested in pursuing science education should also reference the BS Field Science Biology Secondary, under Physical Sciences.