

BACHELOR OF SCIENCE – EDUCATION – MIDDLE LEVEL EDUCATION ACADEMIC AREA IN SCIENCES (GRADES 5-9)

A student must complete the following program in addition to the Essential Studies, Professional Education Middle Levels requirements, and one other Content Area of Specialization requirements. It is recommended for students pursuing this endorsement to take GEOS 437 WORLD ENVIRONMENTAL ISSUES to fulfill the Essential Studies requirement for student learning outcome number nine (SLO #9).

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. The following course credits must be unduplicated, i.e. different from Essential Studies course credits taken:

Code	Title	Credits
Essential Studies (http://catalog.csc.edu/undergraduate/essential-studies-program/)		
Professional Education Requirements (http://catalog.csc.edu/middle-level-education/)		
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
CHEM 131 & 131L	COLLEGE CHEMISTRY I and COLLEGE CHEMISTRY I LAB	4
CHEM 310 or GEOS 310	CAPSTONE I: RESEARCH SEMINAR	1
CHEM 401 or GEOS 401	CAPSTONE II: SENIOR RESEARCH	1
GEOS 129	PHYSICAL SCIENCE FOR ELEM AND MIDDLE GRADES TEACHER	3
GEOS 231 & 231L	PHYSICAL GEOLOGY and PHYSICAL GEOLOGY LAB	4
GEOS 234	EARTH SYSTEM HISTORY	3
PHYS 151 & 151L	COLLEGE PHYSICS I and COLLEGE PHYSICS I LAB	4
Total Credits		28