

# Science Education

Bachelor of Science in Education (B.S. Ed.)



## Combine Science And Working With People!

Become equipped to meet the tremendous demand for high quality science teachers throughout the region and across the country with a degree in Science Education from Black Hills State University.

## Prepare For Your Future

BHSU focuses on providing an integrated curriculum that prepares future teachers to teach science. This affords students the opportunity to become deeply immersed in the content of biology, chemistry or earth science while learning innovative strategies to help teach the subjects. Teaching methods include classroom observations, laboratory lessons, many field experiences, and research.

## Learn From The Best

The faculty at BHSU will guide you in hands-on research and application methods in state-of-the-art laboratories. BHSU has world-class science faculty with experience in collaborative research studies that result in published works. Take advantage of the small class size and the one-on-one attention from dedicated professors.

## Enjoy The Experience

Participate in extensive content and clinical experiences that will prepare you for teaching assignments in multiple areas of Science Education. The demand is high for teachers to be certified in science. Why not get certified today?

Let your love of reasoning, inquiry, and working with people propel you toward a degree in science education. We deliver on our promise to prepare caring, competent, and confident professionals.

## find your career:

- Upon graduation with a degree in Science Education, you can expect to find numerous opportunities to teach. In fact, it is projected that in the next decade, the United States will require 170,000 new middle and high school math and science teachers.
- BHSU offers the MSCI Science Specialist program with core courses available online. Through this program, you have the opportunity to take graduate work directly into your classroom and connect theory to practice.

## connect with us



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# Composite Major in Science Education Required Core

# @BHSU

4cr **MATH 123** Calculus I  
3cr **SEED 413** 7-12 Science Methods

Take 2 areas of science study from the following

## Biology

4cr **BIOL 151** General Biology I **AND 151L** Lab  
4cr **BIOL 153** General Biology II **AND 153L** Lab  
4cr **BIOL 311** Principles of Ecology **AND 311L** Lab  
4cr **BIOL 325** Physiology **AND 325L** Lab  
4cr **BIOL 331** Microbiology **AND 331L** Lab  
4cr **BIOL 371** Genetics **AND 371L** Lab

## Earth Science

4cr **GEOL 201** Physical Geology **AND 201L** Lab  
4cr **GEOL 203** Historical Geology **AND 203L** Lab  
3cr **GEOL 321** Conservation of Natural Resources  
3cr **PHYS 185** Introduction to Astronomy I **AND 185L** Lab

Take 3 courses from the following:

3cr **GEOL 310** Volcanology  
3cr **GEOL 340** Mineralogy/Petrology  
3cr **GEOL 350** Environmental Geology  
3cr **GEOL 360** Environmental Geochemistry  
3cr **GEOL 370** Hydrogeology  
3cr **PHYS 211** University Physics **AND 211L** Lab  
3cr **SCI 388** Global Positioning & Geographical Info Systems

## Physics

4cr **MATH 125** Calculus II  
3cr **PHYS 185** Introduction to Astronomy I **AND 185L** Lab  
5cr **PHYS 211** University Physics I **AND 211L** Lab  
5cr **PHYS 213** University Physics II **AND 213L** Lab  
4cr **PHYS 331** Introduction to Modern Physics  
3cr **PHYS 451** Classical Mechanics

## Chemistry

4cr **CHEM 112** General Chemistry I **AND 112L** Lab  
4cr **CHEM 114** General Chemistry II **AND 114L** Lab  
4cr **CHEM 326** Organic Chemistry I **AND 326L** Lab  
4cr **CHEM 328** Organic Chemistry II **AND 328L** Lab  
4cr **CHEM 332** Analytical Chemistry **AND 332L** Lab  
4cr **CHEM 464** Biochemistry **AND 464L** Lab

## Pre-Professional Teaching Core

1cr **EDFN 295** Practicum: Pre-Admission Teaching  
2cr **EDFN 338** Foundations of American Education  
3cr **EPSY 302** Educational Psychology  
3cr **EPSY 428** Child & Adolescent Development  
3cr **INED 411** South Dakota Indian Studies  
3cr **PSYC 101** General Psychology \*\*  
3cr **SPED 100** Introduction to Persons with Exceptionalities

## Professional Secondary Ed Teaching Core

3cr **EDFN 365** Computer-Based Technology & Learning  
1cr **EDFN 375** Methods of Technology Integration  
1cr **EDFN 440** Classroom Management  
2cr **MLED 480** Middle Level Methods  
3cr **SEED 408** Plan, Manage & Assess the 7-12 Diverse Classroom  
3cr **SEED 450** 7-12 Reading and Content Literacy  
1cr **SEED 495** Practicum: Pre-Student Teaching  
3cr **EDFN 475** Human Relations  
9cr **SEED 488** 7-12 Student Teaching

## General Education Requirements

Gen Ed **Mathematics** *Satisfied by major*  
Gen Ed **Social Science** *6 semester hours*  
Gen Ed **Arts & Humanities** *6 semester hours*  
Gen Ed **Natural Science AND Lab** *Satisfied by major*  
ENGL 101 **Composition I**  
ENGL 201 **Composition II**  
SPCM 101 **OR** SPCM 215 **OR** SPCM 222 **Speech**

A *minor* is NOT required with this major but electives are required to total 120 hours, of which 36 hours must be 300/400 level courses. Students are encouraged to pursue a minor, but to be certified to teach, a content praxis exam must be passed in both the major & minor areas of study.

\*\*Completes one general education requirement.