

Science Education

bachelor of science education (B.S.Ed.)

Do you enjoy 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 two scientific disciplines 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 to 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 full teaching assignments in multiple areas of science. 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 composite degree in science. We deliver on our promise to prepare caring, competent, and confident professionals for the 21st century.

Call 1-800-ALL-BHSU or visit www.BHSU.edu

The BHSU Center for the Advancement of Math and Science Education (CAMSE) houses state-of-the-art materials for undergraduate students to use in learning to teach mathematics and science through a problem-solving approach.



CAREER OPTIONS:

Where you start has everything to do with what you can achieve.

Prepare for an exciting career today:

K-12 School System
Boards of Education
and much more.

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Science Education at BHSU

Required Core

MATH 123 Calculus I **
MATH 123L Calculus I Lab
SEED 413 7-12 Science Methods

Take two areas of science study from the following:

Biology

BIOL 151 General Biology I & 151L Lab
BIOL 153 General Biology II & 153L Lab
BIOL 311 Principles of Ecology & 311L Lab
BIOL 331 Microbiology & 331L Lab
BIOL 371 Genetics & 371L Lab
BIOL Elective

Earth Science

GEOLOGY 201 Physical Geology & 201L Lab
GEOLOGY 203 Historical Geology & 203L Lab
GEOLOGY 321 Conservation of Natural Resources
PHYS 185 Introduction to Astronomy I & 185L Lab

Take two courses from the following:

GEOLOGY 340 Mineralogy/Petrology
GEOLOGY 350 Environmental Geology
GEOLOGY 360 Environmental Geochemistry
GEOLOGY 370 Hydrogeology
SCI 388 Global Positioning & GIS

Physics

PHYS 185 Introduction to Astronomy I & 185L Lab
PHYS 211 University Physics I & 211L Lab
PHYS 213 University Physics II & 213L Lab
PHYS 331 Introduction to Modern Physics
PHYS 471 Quantum Mechanics

Chemistry

CHEM 112 General Chemistry I & 112L Lab
CHEM 114 General Chemistry II & 114L Lab
CHEM 326 Organic Chemistry & 326L Lab
CHEM 328 Organic Chemistry II & 328L Lab
CHEM 332 Analytical Chemistry & 332L Lab

A minor is NOT required with this major but
electives are required to total 128 hours.

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.

Pre-Professional Teaching Core

EDFN 338 Foundations of American Education
EDFN 395 Practicum: Pre-Admission Teaching
EDFN 475 Human Relations
EPSY 302 Educational Psychology
INED 411 South Dakota Indian Studies
PSYC 101 General Psychology **
PSYC 422 Psychology of Adolescence
SPED 405 Educating Secondary Students w/ Disabilities

Professional Secondary Ed Teaching Core

EDFN 365 Computer Based Technology & Learning
MLED 480 Middle Level Methods
SEED 408 The Professional Teacher - Secondary Only
SEED 450 7-12 Teaching Reading in the Content Area
SEED 488 7-12 Student Teaching
SEED 495 Practicum: Pre-Student Teaching

General Education Requirements

- ENGL 101 Composition I
- ENGL 201 Composition II
- SPCM 101, 215, or 222 Speech
- Social Science, minimum 2 different subject areas (9 credits)
- Arts & Humanities, minimum 2 different subject areas (12 credits)
- MATH - satisfied by major
- Natural Science with Lab satisfied by major
- Wellness & Wellness Lab (2 credits)
- Globalization Course (3 credits)