Form Your Bond With Chemistry
Make a permanent bond as you delve into the expanding world of chemistry at Black Hills State University. The foundation of knowledge built through BHSU’s chemistry curriculum is valuable to all disciplines, giving students the ability to adjust to ever-changing job possibilities.

Prepare For Your Future
Students have the opportunity to work one-on-one with faculty utilizing state-of-the-art equipment and research methods. Chemistry is the central science, and the concepts that you learn in the chemistry program can be applied to virtually every area of science. This makes chemistry a great degree choice if you plan to seek immediate employment after graduation, pursue graduate studies in science, or seek a graduate degree.

Learn From The Best
Students receive hands-on training using cutting-edge instrumentation in state-of-the-art laboratories. Classes at BHSU feature a student-centered learning environment, highlighted by a low student-to-faculty ratio. You’ll be given an opportunity to participate in undergraduate research and collaborate with faculty and other students on a number of diverse research projects. BHSU Chemistry faculty members have ongoing research in the high-impact areas of nanomaterial synthesis, materials for renewable energy, medicinal Chemistry, natural products, antibiotics, and biochemistry. Participation in undergraduate research will set you apart in the competitive job market or in applying for graduate degree programs.

Enjoy The Experience
Whether you choose a career in Chemistry or move on to a graduate degree, success is at your fingertips when you start with degree in Chemistry. Let BHSU lead the way to your future!
Chemistry

Chemistry Emphasis

4 CHEM 112 General Chemistry 1 AND 112L Lab **
4 CHEM 114 General Chemistry 2 AND 114L Lab **
4 CHEM 326 Organic Chemistry I AND 326L Lab
4 CHEM 328 Organic Chemistry II AND 328L Lab

Biochemistry Emphasis

4 CHEM 112 General Chemistry 1 AND 112L Lab **
4 CHEM 114 General Chemistry 2 AND 114L Lab **
4 CHEM 326 Organic Chemistry I AND 326L Lab
4 CHEM 328 Organic Chemistry II AND 328L Lab

Major in Chemistry - Teaching

Additional Requirements:
CHEM 464 Biochemistry I AND 464L Lab
MATH 121 Survey of Calculus
OR MATH 123 Calculus
SEED 413 7-12 Science Methods

3- Choose 1 course and lab from the following:
CHEM 355 Field Environmental Chemistry AND 355L Lab
CHEM 434 Instrumental Analysis AND 434L Lab
CHEM 452 Inorganic Chemistry
CHEM 465 Biochemistry II AND 465L Lab
GEOL 360 Geochemistry

Pre-Professional Teaching Core

1 EDFN 295 Practicum: Pre-Admission Teaching
2 EDFN 338 Foundations of American Education
3 EPSY 302 Educational Psychology
3 ESPY 428 Child & Adolescent Development
3 INED 411 South Dakota Indian Studies
3 PSYC 101 General Psychology**
3 SPED 405 Educating Secondary Students with Disabilities
OR
3 SPED 300 Students with Exceptionalities

Professional Secondary Ed Teaching Core

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

General Education Requirements

Gen Ed - Social Science 6-9 semester hours
Gen Ed - Arts & Humanities 12 semester hours
ENGL 101 - Composition I
ENGL 201 - Composition II
SPCM 101, OR SPCM 215, OR SPCM 222 Speech
WEL 100 - Wellness for Life AND WEL 100L

Notes: This program guide serves as a resource for you. For official program requirements, please check with the official catalog at http://catalog.bhsu.edu.