Experience Mathematics!
Your future in Mathematics begins at Black Hills State University. With excellent instructors, computer-based learning systems, and opportunities to tutor in the Math Assistance Center, you will become fully prepared for a career in Mathematics. Many students go into teaching, others find employment with firms specializing in technology, health care, law, or the sciences, wherever accurate data analysis is essential.

Prepare For Your Future
BHSU offers a rigorous program that nurtures mathematical maturity, self-confidence and an appreciation for lifelong learning. Choose a degree program that either prepares you for a career in business or industry, or for graduate school. Another option leads to a career in education at middle or high schools. The course work will give you the opportunity to develop principles, explore connections between areas of mathematics, and develop theories and techniques that model events in related fields, such as engineering and natural sciences.

Learn From The Best
The Math faculty is devoted to making sure students succeed. The faculty members are also actively engaged in research and grant projects, such as doing statistical analysis for the Biology Department, and students are often involved in these research opportunities.

Enjoy The Experience
You can enhance your Mathematics experience by becoming a tutor in the Math Assistance Center. The Center employs approximately 15 students each semester or become involved by joining the Math Club. The club, which is open to all BHSU students, sponsors special presentations, participates in outreach activities, and sends students to regional conferences. Members also receive a free student membership to the Mathematical Association of America (MAA). If your interest is in education, research, science or economics, a degree in Mathematics will prepare you for your career choice.
Mathematics
Required Core

4 MATH 123 Calculus I
4 MATH 125 Calculus II
2 MATH 221 Intro: Discrete Mathematics
4 MATH 225 Calculus III
3 MATH 315 Linear Algebra
3 MATH 321 Differential Equations
3 MATH 413 Abstract Algebra I
3 MATH 425 Real Analysis I
3 MATH 481 Probability and Statistics
3 SEED 418 7-12 Math Methods (Teaching only)

Math Major

Restricted Electives
9- Choose 3 courses from the following:
MATH 316 Discrete Mathematics
MATH 361 Modern Geometry
MATH 411 Theory of Numbers
MATH 416 Combinatorics
MATH 421 Complex Analysis
MATH 440 Mathematics of Finance
MATH 450 History of Mathematics
MATH 461 Introduction to Topology
MATH 487 Design of Experiments

A minor is required with this major plus electives are required to total 120 hours.

Math Teaching Major

Restricted Electives
6- Choose 2 courses from the following:
MATH 316 Discrete Mathematics
MATH 411 Theory of Numbers
MATH 416 Combinatorics
MATH 421 Complex Analysis
MATH 440 Mathematics of Finance
MATH 450 History of Mathematics
MATH 461 Introduction to Topology
MATH 487 Design of Experiments

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 EDFN 495 Practicum: Pre-Student Teaching
3 EDFN 475 Human Relations
9 SEED 488 7-12 Student Teaching

A minor is NOT required with this major but electives are required to total 120 hours.

General Education Requirements

Gen Ed - Mathematics Satisfied by major
Gen Ed - Social Science 9 semester hours/ 6 hours for teaching majors
Gen Ed - Arts & Humanities 12 semester hours
Gen Ed - Natural Science AND Lab 6-8 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 Lab

**Completes one general education requirement.

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.