Are you interested in the natural sciences or agriculture? Here is a list of available majors at SDBOR institutions.

### MAJORS FOR STUDENTS EXPLORING DEGREES IN
### NATURAL SCIENCES & AGRICULTURE

#### BLACK HILLS STATE UNIVERSITY
- Biology
- Biology Education
- Chemistry
- Chemistry Education
- Composite Science Education
- Environmental Physical Science
- Physical Science

#### DAKOTA STATE UNIVERSITY
- Physical Sciences

#### NORTHERN STATE UNIVERSITY
- Biology
- Biology Education
- Chemistry
- Chemistry Education
- Science
- Environmental Science

#### SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY
- Applied Biological Sciences
- Atmospheric Science
- Chemistry
- Geology

#### SOUTH DAKOTA STATE UNIVERSITY
- Agricultural Science
- Agronomy
- Animal Science
- Biochemistry
- Biology
- Chemistry
- Dairy Manufacturing
- Dairy Production
- Ecology and Environmental Science
- General Studies
- Geographic Information Sciences
- Geography
- Horticulture
- Landscape Architecture
- Microbiology
- Natural Resource Law Enforcement
- Physics
- Pre-Veterinary Medicine
- Rangeland Ecology & Management
- Wildlife and Fisheries Sciences

#### THE UNIVERSITY OF SOUTH DAKOTA
- Biology
- Chemistry
- Computer Science
- General Studies
- Biomedical Engineering (Integrated Science)
- Mathematics
- Medical Biology
- Medical Laboratory Science
- Physics
- Sustainability
COURSE RECOMMENDATIONS FOR
STUDENTS EXPLORING DEGREES IN
NATURAL SCIENCES & AGRICULTURE

Reduce the time to graduation by only taking the courses necessary to complete a degree. Below are a few recommended courses for students exploring careers in the natural sciences or agriculture. These are to be viewed as suggestions; other course options compatible with this track are listed on page 3.

Consult university advisors at the university you plan to attend for appropriate placement based on test scores, high school preparation & potential major.

ENGL 101—Composition I
ENGL 201—Composition II
SPCM 101—Fundamentals of Speech
ARTH 100—Art Appreciation
ENGL 210—Introduction to Literature
ARTH 100—Art Appreciation

POLS 100—American Government
HIST 151—United States History I
SOC 100—Introduction to Sociology
ENGL 210—Introduction to Literature

MATH 102—College Algebra (or appropriate course based on placement) OR MATH 281/STAT 281—Introduction to Statistics OR MATH 115—Trigonometry OR MATH 120—Precalculus (MATH 115 & 120 are prerequisites for Calculus I, which is required for some programs in the Natural Sciences & Agriculture Track. College Algebra may not be the appropriate option for some programs within this track.)

Natural Sciences sequence, based on area of interest: (See page 2 for details):

Chemistry
• CHEM 106/L & CHEM 107/L OR CHEM 108/L
• CHEM 112/L & CHEM 114/L

Biology:
• BIOL 101/L & BIOL 103/L
• BIOL 151/L & BIOL 153/L

Earth Science:
• ESCI 101/L & ESCI 103/L

In most cases, it is best for high school students to exhaust the math curriculum at their high school before moving on to dual credit math courses.

Scientists courses should be completed in sequence. Often, students looking to major in science-based majors are better served by taking lab science courses face-to-face in an actual lab, so dual credit may not be the best option for some students.

Depending upon the field and school, the natural science requirements for degree programs may vary. It is recommended that students confirm what courses are needed to complete their desired degree.

These course recommendations fulfill the following general education requirements:

Written Communication
Oral Communication
Social Sciences
Arts & Humanities
Mathematics
Natural Sciences
Goal #1: Written Communication *(Students must take two courses, including ENGL 101)*
- ENGL 101—Composition I *(If attending SDSMT, only ENGL 101 is needed)*
- ENGL 201—Composition II
- ENGL 283—Introduction to Creative Writing

Goal #2: Oral Communication
- SPCM 101—Fundamentals of Speech *(Course not needed if attending SDSMT)*

Goal #3 Social Sciences *(Pick 2 courses from two different disciplines.)*
- CJUS 201—Introduction to Criminal Justice
- ECON 201—Principles of Microeconomics
- ECON 202—Principles of Macroeconomics
- EPSY 210/HDFS 210—Lifespan Development
- GEOG 210—World Regional Geography
- HIST 151—United States History I
- HIST 152—United States History II
- POLS 100—American Government
- POLS 250—World Politics
- POLS 253—Current World Problems
- PSYC 101—General Psychology
- SOC 100—Introduction to Sociology
- SOC 150—Social Problems

Goal #4: Arts & Humanities *(Pick 2 courses from two different disciplines)*
- ART 121—Design I 2D
- ARTH 100—Art Appreciation
- ARTH 211—History of World Art I
- ARTH 212—History of World Art II
- ENGL 210—Introduction to Literature
- MCOM 151—Intro to Mass Communications
- PHIL 220—Introduction to Ethics*
- REL 250—World Religions
- GFA 101—Introduction to Fine Arts
- MUS 100—Music Appreciation
- THEA 100—Introduction to Theatre
- THEA 201—Film Appreciation

Goal #5: Mathematics
- MATH 102—College Algebra *(or appropriate math course based on placement)*
- MATH 115—Precalculus
- MATH 123—Calculus I
- MATH 125—Calculus II
- MATH 281/STAT 281—Introduction to Statistics

Goal #6: Natural Sciences *(Students will need at least 6 credits)*
- BIOL 101/L—Biology Survey I & Lab
- BIOL 103/L—Biology Survey II & Lab
- BIOL 151/L—General Biology I & Lab
- BIOL 153/L—General Biology II & Lab
- CHEM 106/L—Chemistry Survey & Lab
- CHEM 107/L—Organic & Biochemistry Survey & Lab
- CHEM 108/L—Organic & Biochemistry Survey & Lab
- CHEM 112/L—General Chemistry I & Lab
- CHEM 114/L—General Chemistry II & Lab
- CHEM 120/L—Elementary Organic Chemistry & Lab
- ESCI 101/L—Dynamic Earth & Lab
- ESCI 103/L—Earth and Life Through Time & Lab
- GEOG 131/L—Physical Geography: Weather/Climate & Lab
- GEGO 132/L—Physical Geography: Natural Landscapes/& Lab

Consulting university advisors is critical for determining which science sequence will be best for your desired major. Sciences courses should be completed in sequence.

Often, students looking to major in science-based majors are better served by taking lab science courses face-to-face in an actual lab, so dual credit may not be the best option for some students.