



HIGH SCHOOL DUAL CREDIT
NATURAL SCIENCES & AGRICULTURE MAJORS

ARE YOU INTERESTED IN THE NATURAL SCIENCES OR AGRICULTURE? VIEW THE FOLLOWING MAJORS AVAILABLE AT SOUTH DAKOTA'S PUBLIC UNIVERSITIES AND GET A HEAD START WITH HIGH SCHOOL DUAL CREDIT (HSDC).

BLACK HILLS STATE UNIVERSITY

- Biology
- Biology Education
- Biology - Forest & Grassland Ecology
- Chemistry
- Chemistry Education
- Composite Science Education
- Environmental Physical Science
- Physics

DAKOTA STATE UNIVERSITY

- Biology
- Biology Education

NORTHERN STATE UNIVERSITY

- Biology
- Biology Education
- Chemistry
- Chemistry Education
- Science
- Environmental Science

SOUTH DAKOTA MINES

- Atmospheric and Environmental Sciences
 - Environmental Sciences Specialization
 - Meteorology Specialization
- Biology
- Chemistry
- Geology

SOUTH DAKOTA STATE UNIVERSITY

- Agricultural Science
- Agronomy
- Animal Science
- Biochemistry
- Biology
- Chemistry
- Dairy Manufacturing
- Dairy Production
- Ecology and Environmental Science
- 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
- Biomedical Engineering (Integrated Science)
- Mathematics
- Medical Biology
- Medical Laboratory Science
- Physics
- Sustainability

SAMPLE HSDC PLAN

If you're considering a career in natural sciences or agriculture, there are some General Education courses that we recommend.

General Education curriculum consists of classes in arts and humanities, communication, mathematics, natural sciences, and social sciences. All South Dakota Public Universities require students to take courses in these subjects.

WRITTEN COMMUNICATION

- ENGL 101 Composition I
- ENGL 201 Composition II

ORAL COMMUNICATION

- CMST 101 Foundations of Communication

SOCIAL SCIENCES

- POLS 100 American Government
- HIST 151 United States History I

ARTS & HUMANITIES

- ENGL 210 Intro to Literature
- ARTH 100 Art Appreciation

MATHEMATICS

- MATH 114 College Algebra

NATURAL SCIENCES

- CHEM 106/L Chemistry
- CHEM 107/L Organic & Biochemistry

These are just suggestions. Other course options compatible with the track are found on the following page.

**Pre-professional programs, such as "Pre-Medical" are not majors that result in a degree. Students can supplement their chosen major with a pre-professional program to help prepare for future career goals.*

HIGH SCHOOL DUAL CREDIT COURSE RECOMMENDATIONS FOR NATURAL SCIENCES & AGRICULTURE MAJORS

If you're looking to graduate college faster, it's a good idea to focus on taking only the HSDC courses that are necessary to complete your degree. If you're interested in natural sciences or agriculture careers, view the list of applicable general education courses below. *To view a full list of HSDC courses view Board of Regents policy 2.3.7.*

It is also important to speak with university advisors at the institution you plan to attend. They can help you determine what courses to take based on your test scores, high school preparation, and potential major.

WRITTEN COMMUNICATION

(Pick 2 courses, only ENGL 101 is required at SD Mines.)

ENGL 101—Composition I

ENGL 201—Composition II

ENGL 283—Introduction to Creative Writing

ORAL COMMUNICATION

CMST 101—Foundations of Communication

(Course not required at SD Mines)

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—Intro to International Relations

POLS 253—Current World Issues

PSYC 101—General Psychology

SOC 100—Introduction to Sociology

SOC 150—Social Problems

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 100—Intro to Philosophy

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

MATHEMATICS

(Pick 1 course based on placement and program)

MATH 103—Math Reasoning

MATH 114—College Algebra

MATH 115—Precalculus

MATH 123—Calculus I

MATH 125—Calculus II

MATH 281/STAT 281—Introduction to Statistics

In most cases, it is best for students to exhaust the math curriculum at their high school before moving on to Dual Credit. By gaining basic skills in calculus/trigonometry, students will be better prepared for the coursework they will be required to take.

NATURAL SCIENCES

(Pick 2 courses, minimum 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 & Lab

CHEM 112/L—General Chemistry I & Lab

CHEM 114/L—General Chemistry II & Lab

CHEM 120/L—Elementary Organic Chemistry & Lab

GEOG 131/L—Physical Geography: Weather/Climate & Lab

GEOG 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 considering science-based majors are better served by taking lab science courses face-to-face in an actual lab, dual credit may not be the best option.