



HIGH SCHOOL DUAL CREDIT GENERAL EDUCATION

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 Education, Communication and Leadership
Agricultural Business
Agricultural Science
Agricultural Systems Technology
Agronomy

SOUTH DAKOTA STATE UNIVERSITY (cont.)

Animal Science
Biochemistry
Biology
Biotechnology
Chemistry - ACS Certified
Chemistry Education
Conservation Planning and Park Management
Dairy Manufacturing
Dairy Production
Ecology and Environmental Science
Food Science
Geographic Information Sciences
Geography
Horticulture
Landscape Architecture
Microbiology
Natural Resource Law Enforcement
Physics
Precision Agriculture
Pre-Veterinary Medicine
Rangeland Ecology & Management
Wildlife and Fisheries Sciences

UNIVERSITY OF SOUTH DAKOTA

Agribusiness Leadership
Biochemistry
Biology (Conservation Biology and Physiology, Cell & Molecular)
Biomedical Engineering
Chemistry
Mathematics
Medical Biology
Medical Laboratory Science
Physics
Sustainability

SAMPLE HSDC PLAN

If you're considering a career in natural sciences or agriculture, these 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.

HIGH SCHOOL DUAL CREDIT GENERAL EDUCATION 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, 1 to meet the civics requirement and the other from a different discipline)

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

**Meets civics requirement*

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

It is often best for students to exhaust the math curriculum at their high school before moving to Dual Credit. Gaining the basic skills in calculus/trigonometry better prepares students 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

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 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.