



# HIGH SCHOOL DUAL CREDIT

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

### **POTENTIAL DEGREES:** SOUTH DAKOTA MINES

Biomedical Engineering Chemical Engineering Civil Engineering Computer Engineering Electrical Engineering Geological Engineering Industrial Engineering & Engineering Management Mechanical Engineering Metallurgical Engineering Mining Engineering

### SOUTH DAKOTA STATE UNIVERSITY

Agricultural and Biosystems Engineering Civil Engineering Computer Science Concrete Industry Management Construction Management Electrical Engineering Electronics Engineering Technology Mechanical Engineering Operations Management

# **CERTIFICATE PLAN**

If you're considering a career in engineering, below are some courses we recommend.

## SCIENCE

Take one of the following: **CHEM 112/L** General Chemistry I w/Lab **PHYS 207/207L** Fundamentals of Physics I w/Lab

# ENGINEERING

Take one of the following:

GE101Intro to Engineering & Technical ProfessionsGES 130/130LIntro to Engineering and Science

# MATH

Take one of the following:MATH 115PrecalculusMATH 116Engineering Precalculus w/LabMATH 121Survey of CalculusMATH 123Calculus I

### INDIVIDUAL STUDENT OUTCOMES

- Define a problem and apply appropriate techniques to obtain valid solutions.
- Analyze available facts, evidence, and observations and apply rational, unbiased analysis to form judgments.
- Systematically explore and investigate complex issues to develop well-supported conclusions.

Note: Some courses may only be available during one semester; make sure to research this when creating your certificate plan.

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UPON COMPLETION: UNDERGRADUATE GATEWAY TO ENGINEERING CERTIFICATE