

Pre-Engineering and Computer Science Transfer Guide

The South Dakota School of Mines and Technology (SD Mines) is a public university in Rapid City, SD, that prepares students to succeed in science and engineering fields. SD Mines has been ranked one of “America’s Best College Buys” for almost 20 years for our return on investment. Students have consistently earned over a 95% placement rate into their field of study after completing their Bachelor’s degree.

97% Placement
77% Internship Experience
\$61,346 Avg. Starting Salary

This guide is meant to assist students interested in transferring to SD Mines. There may be other courses that you could take at your community college that will transfer to SD Mines- it is recommended that you contact us throughout your transfer process to ensure your courses will transfer.

General transfer guidelines:

- Save the syllabi for your courses- they may be required to evaluate your transfer credit.
- You typically need a “C” or higher grade to transfer a course.
- You do not need to complete all the courses listed here before transferring.

Core Pre-Engineering and Computer Science Courses:

- Calculus I
- Calculus II
- Calculus III
- General Chemistry I + Lab
- English Composition I (MnTC Goal 1)
- English Composition II (MnTC Goal 1)
- Public Speaking (MnTC Goal 1)
- *SD Mines does not accept Interpersonal Communication*
- 6 credits of Social Sciences (MnTC Goal 5)
- 6 credits of Humanities (MnTC Goal 6)
- Physics I (Calculus-based)

You may want to consider taking some specialized courses toward your major requirements, in addition to these core courses. Additional potential transfer courses are listed by major in the next column.

Want to know more?

Research our degrees, apply for admission, or schedule a visit on our website!
www.sdsmt.edu

Biomedical Engineering:

- Differential Equations
- General Biology I + Lab
- General Chemistry II + Lab

Chemical Engineering:

- Differential Equations
- General Chemistry II + Lab
- Physics II (Calculus-based)

Civil Engineering:

- CADD
- Differential Equations
- General Chemistry II + Lab
- Statics

Computer Engineering:

- C++ based programming course
- Circuits
- Differential Equations
- Physics II (Calculus-based)

Computer Science:

- C++ based programming sequence

Electrical Engineering:

- C++ based programming course
- Circuits
- Differential Equations
- Physics II (Calculus-based)

Geological Engineering:

- CADD
- General Chemistry II + Lab
- Statics
- Differential Equations
- Physics II (Calculus-based)

Industrial Engineering & Engineering Management:

- Differential Equations
- Physics II (Calculus-based)
- General Psychology

Mechanical Engineering:

- C based programming course
- Differential Equations
- Statics
- Dynamics
- Physics II (Calculus-based)

Metallurgical Engineering:

- General Chemistry II + Lab
- C based programming course
- Differential Equations
- Physics II (Calculus-based)

Mining Engineering:

- Statics
- Dynamics
- Differential Equations
- Economics (Macro- or Micro-)

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Core Science, Pre-Med, and Business Courses:

- Calculus I
- Calculus II
- General Chemistry I + Lab
**Mathematics students may take General Chemistry + Lab or General Biology + Lab*
- English Composition I (MnTC Goal 1)
- English Composition II (MnTC Goal 1)
- Public Speaking (MnTC Goal 1)
**SD Mines does not accept Interpersonal Communication*
- 6 credits of Social Sciences (MnTC Goal 5)
- 6 credits of Humanities (MnTC Goal 6)

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Applied Biological Sciences:

- General Biology I + Lab
- General Biology II + Lab
- General Chemistry II + Lab
- Physics I (Calculus-based)
- Physics II (Calculus-based)

Atmospheric Sciences:

- Calculus III
- C++ based programming course
- Differential Equations
- General Biology I + Lab
- General Chemistry II + Lab
- Physics I (Calculus-based)
- Physics II (Calculus-based)

Business Management in Technology:

- One Social Science course should be Microeconomics
- One Humanities course should be Intro to Logic
- Accounting

Chemistry:

- Differential Equations
- General Chemistry II + Lab
- Physics I (Calculus-based)
- Physics II (Calculus-based)

Geology:

- Calculus III
- C or C++ based programming course
- Physical Geology
- Physics I (Calculus-based)
- Physics II (Calculus-based)

Mathematics:

- Calculus III
- C++ based programming course
- Differential Equations
- General Biology I + Lab OR General Chemistry I + Lab
- Physics I (Calculus-based)
- Physics II (Calculus-based)

Pre-Med:

- Anatomy
- C or C++ based programming course
- General Biology I + Lab
- General Biology II + Lab
- General Chemistry II + Lab

Physics:

- Calculus III
- C++ based programming course
- Differential Equations
- Physics I (Calculus-based)
- Physics II (Calculus-based)