

Pre-Engineering & Computer Science Transfer Guide

South Dakota School of Mines and Technology is a distinguished public university nestled in Rapid City, SD, dedicated to equipping students for success in science and engineering. For nearly two decades, South Dakota Mines has proudly held the title of "America's Best College Buys," emphasizing our exceptional return on investment. Nearly all of our students find employments in their chosen career field or are accepted to graduate programs upon completion of their degrees.

This guide is designed to support students considering a transfer to South Dakota Mines. There may be additional courses at your community college that align seamlessly with our programs. We strongly recommend staying in touch with us throughout your transfer process to ensure a smooth transition and verify the transferability of your courses. Your journey to success starts here!

General transfer guidelines:

- Save the syllabi for your courses- they may be required to evaluate your transfer credit.
- You do not need to complete all the courses listed here before transferring.

Core Pre-Engineering and Computer Science Courses:

- MATH 2200 Calculus I
- MATH 2205 Calculus II
- MATH 2210 Calculus III
- CHEM 1020 General Chemistry I + Lab
- ENGL 1010 English I
- ENGL 2005 Technical Writing
- COM 1010 Intro to Public Speaking
**South Dakota Mines does not accept Interpersonal Communication*
- 6 credits of Social Sciences in two subject areas
**Corresponds to most courses in the Social and Behavioral Sciences and US & WY Constitutions general education categories.*
- 6 credits of Humanities in two subject areas
**Corresponds to most courses in the Global Diversity, Humanities, Foreign Language, and Visual and Performing Arts general education categories.*
- PHYS 1310 College Physics I

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.

Biomedical Engineering:

MATH 2310 Applied Differential Equations I
BIOL 1010 General Biology I
CHEM 1030 General Chemistry II

Chemical Engineering:

MATH 2310 Applied Differential Equations I
CHEM 1030 General Chemistry II
PHYS 1320 College Physics II

Civil Engineering:

ENTK 2500 Computer Aided Drafting I
MATH 2310 Applied Differential Equations I
CHEM 1030 General Chemistry II
ES 2110 Statics

Computer Engineering:

C++ based programming course
Circuits
MATH 2310 Applied Differential Equations I
PHYS 1320 College Physics II

Computer Science:

C++ based programming sequence

Electrical Engineering:

C++ based programming course
Circuits
MATH 2310 Applied Differential Equations I
PHYS 1320 College Physics II

Geological Engineering:

ENTK 2500 Computer Aided Drafting I
CHEM 1030 General Chemistry II
ES 2110 Statics
MATH 2310 Applied Differential Equations I
PHYS 1320 College Physics II

Industrial Engineering & Engineering Management:

MATH 2310 Applied Differential Equations I
PHYS 1320 College Physics II
PSYC 1000 General Psychology

Mechanical Engineering:

C based programming course
MATH 2310 Applied Differential Equations I
ES 2110 Statics
ES 2120 Dynamics
PHYS 1320 College Physics II

Metallurgical Engineering:

CHEM 1030 General Chemistry II
C based programming course
MATH 2310 Applied Differential Equations I
PHYS 1320 College Physics II

Mining Engineering:

ES 2110 Statics
ES 2120 Dynamics
MATH 2310 Applied Differential Equations I
Economics (Macro- or Micro-)

Contact us:

transfer@sdsmt.edu
605.394.2414

Visit:

sdsmt.edu/visit

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Science, Pre-Med & Business Transfer Guide

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General transfer guidelines:

- Save the syllabi for your courses- they may be required to evaluate your transfer credit.
- You do not need to complete all the courses listed here before transferring.

Core Science, Pre-Med, and Business Courses:

- MATH 2200 Calculus I
- MATH 2205 Calculus II
- CHEM 1020 General Chemistry I + Lab
**Mathematics students may take General Chemistry + Lab or General Biology + Lab*
- ENGL 1010 English I
- ENGL 2005 Technical Writing
- COM 1010 Intro to Public Speaking
**South Dakota Mines does not accept Interpersonal Communication*
- 6 credits of Social Sciences in two subject areas
**Corresponds to most courses in the Social and Behavioral Sciences and US & WY Constitutions general education categories.*
- 6 credits of Humanities in two subject areas
**Corresponds to most courses in the Global Diversity, Humanities, Foreign Language, and Visual and Performing Arts general education categories.*

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.

Biology:

BIOL 1010 General Biology I
BIOL 2020 General Biology II
CHEM 1030 General Chemistry II
PHYS 1310 College Physics I
PHYS 1320 College Physics II

Atmospheric Sciences:

MATH 2210 Calculus III
C++ based programming course
MATH 2310 Applied Differential Equations I
BIOL 1010 General Biology I
CHEM 1030 General Chemistry II
PHYS 1310 College Physics I
PHYS 1320 College Physics II

Business Management in Technology:

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

Chemistry:

MATH 2310 Applied Differential Equations I
CHEM 1030 General Chemistry II
PHYS 1310 College Physics I
PHYS 1320 College Physics II

Geology:

MATH 2210 Calculus III
C or C++ based programming course
GEOL 1100 Physical Geology
PHYS 1310 College Physics I
PHYS 1320 College Physics II

Mathematics:

MATH 2210 Calculus III
C++ based programming course
MATH 2310 Applied Differential Equations I
BIOL 1010 General Biology I OR General Chemistry I + Lab
PHYS 1310 College Physics I
PHYS 1320 College Physics II

Pre-Med:

Anatomy
C or C++ based programming course
•BIOL 1010 General Biology I
•BIOL 2020 General Biology II
•CHEM 1030 General Chemistry II

Physics:

MATH 2210 Calculus III
C++ based programming course
MATH 2310 Applied Differential Equations I
PHYS 1310 College Physics I
PHYS 1320 College Physics II

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