SOUTH DAKOTA MINES
An engineering, science and technology university

North Dakota

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 165 Calculus I
•MATH 166 Calculus II
•MATH 265 Calculus III
•CHEM 121/L Gen. Chemistry I/Lab
•ENGL 110 College Comp. I
•ENGL 120 College Comp. II
•COMM 110 Fundamentals of Public Speaking
*SD Mines does not accept Interpersonal Communication
•6 credits of Social & Behavioral Sciences
•6 credits of Arts & Humanities
•PHYS 251 University 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 266 Intro to Diff. Eq.
•BIOL 150/L Gen. Bio. I/Lab
•CHEM 122/L Gen. Chem. II/Lab

Chemical Engineering:
•MATH 266 Intro to Diff. Eq.
•CHEM 122/L Gen. Chem. II/Lab
•PHYS 252/L University Physics II/Lab

Civil Engineering:
•CAD 211 Computer Aided Design
•MATH 266 Intro to Diff. Eq.
•CHEM 122/L Gen. Chem. II/Lab
•ENGR 201 Statics

Computer Engineering:
•C++ based programming course
•EE 206/L Circuit Analysis/Lab
•MATH 266 Intro to Diff. Eq.
•PHYS 252/L University Physics II/Lab

Computer Science:
•C++ based programming sequence

Electrical Engineering:
•C++ based programming course
•EE 206/L Circuit Analysis/Lab
•MATH 266 Intro to Diff. Eq.
•PHYS 252/L University Physics II/Lab

Geological Engineering:
•CAD 211 Computer Aided Design
•CHEM 122/L Gen. Chem. II/Lab
•ENGR 201 Statics
•MATH 266 Intro to Diff. Eq.
•PHYS 252/L University Physics II/Lab

Industrial Engineering & Engineering Management:
•MATH 266 Intro to Diff. Eq.
•PHYS 252/L University Physics II/Lab
•PSYC 101 Intro. to Psyc.

Mechanical Engineering:
•C based programming course
•MATH 266 Intro to Diff. Eq.
•ENGR 201 Statics
•ENGR 202 Dynamics
•PHYS 252/L University Physics II/Lab

Metallurgical Engineering:
•CHEM 122/L Gen. Chem. II/Lab
•C based programming course
•MATH 266 Intro to Diff. Eq.
•PHYS 252/L University Physics II/Lab

Mining Engineering:
•ENGR 201 Statics
•ENGR 202 Dynamics
•MATH 266 Intro to Diff. Eq.
•Economics (Macro- or Micro-)

Contact us:
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SOUTH DAKOTA MINES
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Normandale Community College

Science, Pre-Med & Business Transfer Guide

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General transfer guidelines:

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- You do not need to complete all the courses listed here before transferring.

Core Science, Pre-Med, and Business Courses:

•MATH 165 Calculus I
•MATH 166 Calculus II
•CHEM 121/L Gen. Chemistry I/Lab
*Mathematics students may take General Chemistry + Lab or General Biology + Lab
•ENGL 110 College Comp. I
•ENGL 120 College Comp. II
•COMM 110 Fundamentals of Public Speaking
*SD Mines does not accept Interpersonal Communication
•6 credits of Social & Behavioral Sciences
•6 credits of Arts & Humanities

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 150/L Gen. Bio. I/Lab
•BIOL 151/L Gen. Bio. II/Lab
•CHEM 122/L Gen. Chem. II/Lab
•PHYS 251 University Physics I
•PHYS 252/L University Physics II/Lab

Atmospheric Sciences:
•MATH 265 Calculus III
•MATH 266 Intro to Diff. Eq.
•BIOL 150/L Gen. Bio. I/Lab
•CHEM 122/L Gen. Chem. II/Lab
•PHYS 251 University Physics I
•PHYS 252/L University Physics II/Lab

Business Management in Technology:
•One Social Science course should be Microeconomics
•One Humanities course should be Intro to Logic
•Accounting

Chemistry:
•MATH 266 Intro to Diff. Eq.
•CHEM 122/L Gen. Chem. II/Lab
•PHYS 251 University Physics I
•PHYS 252/L University Physics II/Lab

Geology:
•MATH 265 Calculus III
•C or C++ based programming course
•GEOL 105/L Phys. Geol./Lab
•PHYS 251 University Physics I
•PHYS 252/L University Physics II/Lab

Mathematics:
•MATH 265 Calculus III
•C++ based programming course
•MATH 266 Intro to Diff. Eq.
•BIOL 150/L Gen. Bio. I/Lab OR CHEM 121/L Gen. Chemistry I/Lab
•PHYS 251 University Physics I
•PHYS 252/L University Physics II/Lab

Pre-Med:
•Anatomy
•C or C++ based programming course
•BIOL 150/L Gen. Bio. I/Lab
•BIOL 151/L Gen. Bio. II/Lab
•CHEM 122/L Gen. Chem. II/Lab

Physics:
•MATH 265 Calculus III
•C++ based programming course
•MATH 266 Intro to Diff. Eq.
•PHYS 251 University Physics I
•PHYS 252/L University Physics II/Lab

Contact us:
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