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:
- MAT 211 Calculus I
- MAT 217 Calculus II
- MAT 220 Calculus III
- CHM 166 General Chemistry I + Lab
- ENG 105 English Composition I
- ENG 106 English Composition II
- SPC 112 Public Speaking
- 6 credits of Social Sciences
- 6 credits of Humanities
- PHY 210 Classical Physics I + Lab (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.

Biomedical Engineering:
- MAT 227 Differential Equations with Laplace
- BIO 112 General Biology I + Lab
- CHM 176 General Chemistry II + Lab
- BIO 168 Human Anatomy/physiology I

Chemical Engineering:
- MAT 227 Differential Equations with Laplace
- CHM 176 General Chemistry II + Lab
- PHY 220 Classical Physics II (Calculus-based)

Civil Engineering:
- MAT 227 Differential Equations with Laplace
- CHM 176 General Chemistry II + Lab

Computer Engineering:
- ELT 196 Circuit Analysis I
- MAT 227 Differential Equations with Laplace
- PHY 220 Classical Physics II (Calculus-based)

Computer Science:
- Computer science sequence must be taken through South Dakota Mines CSC 115, 215, 315

Electrical Engineering:
- ELT 196 Circuit Analysis I
- MAT 227 Differential Equations with Laplace
- PHY 220 Classical Physics II (Calculus-based)

Geological Engineering:
- CHM 176 General Chemistry II + Lab
- MAT 227 Differential Equations with Laplace
- PHY 220 Classical Physics II (Calculus-based)

Industrial Engineering & Engineering Management:
- MAT 227 Differential Equations with Laplace
- PHY 220 Classical Physics II (Calculus-based)
- PSY 111 Introduction to Psychology

Mechanical Engineering:
- MAT 227 Differential Equations with Laplace
- PHY 220 Classical Physics II (Calculus-based)

Metallurgical Engineering:
- CHM 176 General Chemistry II + Lab
- MAT 227 Differential Equations with Laplace
- PHY 220 Classical Physics II (Calculus-based)

Mining Engineering:
- MAT 227 Differential Equations with Laplace
- ECN 120/130 Principles of Economics (Macro- or Micro-)

Contact us:
transfer@sdsmt.edu
605.394.2414

Visit:
sdsmt.edu/visit

Apply
sdsmt.edu/apply
Science, Pre-Med & Business Transfer Guide

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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 Science, Pre-Med, and Business Courses:
- MAT 211 Calculus I
- MAT 217 Calculus II
- MAT 220 Calculus III
- CHM 166 General Chemistry I + Lab
- ENG 105 English Composition I
- ENG 106 English Composition II
- SPC 112 Public Speaking
- 6 credits of Social Sciences
- 6 credits of Humanities
- PHY 210 Classical Physics I + Lab (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.

Biology:
- BIO 112 General Biology I + Lab
- BIO 113 General Biology II + Lab
- BIO 168 Human Anatomy/physiology I
- CHM 176 General Chemistry II + Lab
- PHY 210 Classical Physics I (Calculus-based)
- PHY 220 Classical Physics II (Calculus-based)

Atmospheric Sciences:
- MAT 220 Calculus III
- MAT 227 Differential Equations with Laplace
- BIO 112 General Biology I + Lab
- CHM 176 General Chemistry II + Lab
- PHY 210 Classical Physics I (Calculus-based)
- PHY 220 Classical Physics II (Calculus-based)

Business Management in Technology:
- ECN 130 Principles of Microeconomics

Chemistry:
- MAT 227 Differential Equations with Laplace
- CHM 176 General Chemistry II + Lab
- PHY 210 Classical Physics I (Calculus-based)
- PHY 220 Classical Physics II (Calculus-based)

Geology:
- CHM 176 General Chemistry II + Lab
- PHY 210 Classical Physics I (Calculus-based)
- PHY 220 Classical Physics II (Calculus-based)

Mathematics:
- MAT 220 Calculus III
- MAT 227 Differential Equations with Laplace
- BIO 112 General Biology I + Lab OR
- CHM 176 General Chemistry II + Lab
- PHY 210 Classical Physics I (Calculus-based)
- PHY 220 Classical Physics II (Calculus-based)

Pre-Med:
- BIO 168 Human Anatomy/physiology I
- MAT 157 Statistics
- BIO 112 General Biology I + Lab
- BIO 113 General Biology II + Lab
- CHM 176 General Chemistry II + Lab

Physics:
- MAT 220 Calculus III
- MAT 227 Differential Equations with Laplace
- PHY 210 Classical Physics I (Calculus-based)
- PHY 220 Classical Physics II (Calculus-based)
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