

**Colorado School of Mines (CSM)**  
**State Recognized General Education for Engineering Courses**  
**as of January 2009**

The following courses will be accepted by the Colorado School of Mines upon transfer from any school included in the Statewide Engineering Articulation Agreement provided necessary conditions are met:

**MATHEMATICS (Up to 4 courses)**

MATH111 – Calculus for Scientists and Engineers I  
MATH112 – Calculus for Scientists and Engineers II<sup>1</sup>  
MATH213 – Calculus for Scientists and Engineers III<sup>1</sup>  
MATH225 – Differential Equations

**SCIENCE (2 courses)**

PHGN100 – Physics I – Mechanics<sup>2</sup>  
PHGN200 – Physics II – Electromagnetism and Optics<sup>2</sup>  
CHGN121 – Principles of Chemistry I<sup>3</sup>

**ARTS & HUMANITIES and SOCIAL & BEHAVIORAL SCIENCES (3 courses)**

H&SS Elective – Humanities and Social Sciences General Education Restricted Elective<sup>4</sup>

All transfer students may submit additional course materials for courses relevant to the degree program(s) at CSM for departmental review. If it is determined that the course is equivalent to a CSM course and that the student's work is satisfactory, credit may be granted for this additional course work.

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<sup>1</sup> Due to the unique nature of the Calculus curriculum at the Colorado School of Mines, transfer credit for Calculus II and III will only be granted if both courses have been successfully completed prior to transfer and provided that the Calculus III course being transferred is equivalent in content to MATH213. Should it be necessary, CSM has created short-form courses to bridge from the highest-level Calculus course being transferred to the CSM curriculum. These courses are designed to have a minimal impact on transfer students while insuring that they have the same foundation as all CSM undergraduates.

**Short-Form Courses:**

- If a transfer student has only completed Calculus II, the student will be required to complete a one credit hour Calculus II short-form course to bridge any material not covered in the course being transferred to CSM.
- If a transfer student has completed Calculus III, course materials should be submitted to the Mathematics faculty at CSM for review. If it is determined that the course being transferred is not equivalent in content to MATH 213, the student will be required to complete a one credit hour Calculus III short-form course to bridge any material not covered in the course being transferred to CSM.

<sup>2</sup> Physics courses being transferred into CSM must be calculus-based as described in the Statewide Engineering Articulation Agreement. At CSM, calculus-based physics courses require students to demonstrate on a regular basis in homework, quizzes, and exams their ability to apply the ideas of calculus to physical situations. Course materials must be submitted to the Physics faculty at CSM to ensure that this level of preparation has been achieved before credit will be granted. Students will be allowed to take a challenge exam if it is determined that the transferred course may not have provided the necessary level of preparation. In addition, transferred Physics courses should have a laboratory component.

<sup>3</sup> Chemistry courses being transferred into CSM must be laboratory based as described in the Statewide Engineering Articulation Agreement

<sup>4</sup> The appropriate electives should be determined in consultation with a transfer advisor and H&SS faculty members from the Economics and Business Division and the Division of Liberal Arts and International Studies at CSM.

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The Colorado School of Mines offers undergraduate degree programs leading to a Bachelor of Science Degree in the following Academic Departments and Divisions – all with a common institutional core:

- Chemical Engineering Department
  - Chemical Engineering
  - Chemical & Biochemical Engineering
  
- Chemistry & Geochemistry Department
  - Chemistry Track
  - Environmental Chemistry Track
  - Biochemistry Track
  
- Economics & Business Division
  - Economics & Business Option
  - Technology Option
  - Global Business Option
  
- Engineering Division
  - Civil Engineering Specialty
  - Electrical Engineering Specialty
  - Environmental Engineering Specialty
  - Mechanical Engineering Specialty
  
- Department of Geology & Geological Engineering
  - Minerals & Petroleum Exploration Engineering Concentration
  - Environmental, Engineering Geology and Geotechnics, and Ground-Water Engineering Concentration
  
- Geophysics
  - Geophysical Engineering
  
- Mathematical & Computer Sciences
  - Computational & Applied Mathematics Option
  - Computer Science Option
  - Statistics Option
  
- Metallurgical & Materials Engineering
  - Metallurgical & Materials Engineering
  
- Mining Engineering
  - Mining Engineering
  
- Petroleum Engineering
  - Petroleum Engineering
  
- Physics
  - Engineering Physics