PROGRAM SCOPE
Mines’ undergraduate degree program in engineering physics provides a deep understanding of science fundamentals combined with the practical knowledge and skills of engineering practice and design. Students are equipped to enter jobs that require a broad technical education or continue to specialize through graduate school, whether in physics, related technical fields or even medicine and law.

1 OF 20 ABET-ACCREDITED ENGINEERING PHYSICS PROGRAMS IN THE COUNTRY

UNDERGRADUATE RESEARCH
Physics majors at Mines participate in the research activities of the physics faculty through senior design, with additional opportunities to work as an undergraduate research assistant. Research is supported by state-of-the-art equipment and instrumentation and students will have a chance to work with the professors who are at the forefront in their areas of expertise.

SUMMER FIELD SESSION
In summer field session, students are introduced to machine shop techniques, vacuum technology, materials preparation and specialized applications of computer technology.

SENIOR DESIGN
In senior design, students work with faculty on an independent research, design and/or fabrication project, an experience similar to that of professional physicists.

AREAS OF STUDY
The curriculum combines aspects of an engineering degree with the rigorous foundation of traditional physics. Physics majors tackle advanced topics in mechanics, electromagnetism, thermodynamics, electronics and modern physics.

DEGREE
✓ Engineering Physics
  Bachelor’s, master’s and PhD offered

+ Combined Programs
  Physics majors can earn a master’s degree with one additional year of study, with tracks in:
  • Applied Mathematics and Statistics
  • Electrical Engineering
  • Nuclear Engineering
  • Materials Science
  • Mechanical Engineering
  • Physics
  • Engineering and Technology Management
  • Chemical and Biological Engineering
STUDENT LIFE

The Physics Department is a close-knit community where professors take an active interest in all undergraduate physics majors. The Society of Physics Students, one of the most active groups on campus, is recognized as one of the nation’s outstanding chapters.

Golden, in the foothills of the Rockies, is a lively, historic city just 15 minutes from downtown Denver. Campus is a few hours from some of the world’s best ski slopes and national parks, and is surrounded by excellent rock climbing, mountain biking, hiking and backpacking.

COLORADO SCHOOL OF MINES BY THE NUMBERS

Mines is a public research university devoted to engineering and applied science. It has the highest admissions standards of any public university in Colorado and among the highest of any public university in the United States.

#1 U.S. school for an engineering degree*  
#1 average starting salaries*  
#2 combining research and teaching§  
#2 in the West for career preparation§  
#2 best return on investment†  
#4 best value (in state)‡§  
#10 best value (out of state)†  
#29 top public schools**

*USA Today College §Wall Street Journal/THE †BestColleges.com ‡PayScale ≈U.S. News & World Report

CONTACT

UWE GREIFE • Professor and Department Head • physics-dh@mines.edu • 303.273.3850
BARBARA SHELENBERGER • Program Assistant • bpjohnso@mines.edu • 303.273.3830

PHYSICS.MINES.EDU