ENGINEERING PHYSICS
PHYSICS.MINES.EDU

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 become equipped to enter jobs that require a broad technical education or to succeed in a variety of graduate school settings, including 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. Students will have a chance to work with the professors who are at the forefront of their areas of expertise.

SUMMER FIELD SESSION
In summer field session, students are introduced to computational applications, machine shop techniques, professional development, electronics and instrumentation, vacuum systems and material science, and optics.

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
  - Computer Science
  - Data Science
  - Quantum Engineering

*ABET.org
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 public college (in state)
#1 best value (in state)
#2 combining research and teaching
#2 best return on investment
#4 best Engineering college in U.S.
#7 best value in U.S.
#12 highest alumni rating
#21 top public school in U.S.

*Business First; 7Wall Street Journal/THE; *Money Magazine; *PayScale; «Forbes Magazine

CONTACT

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