Institutional Student Outcomes:

Institutional Educational Objectives:

Doctoral Programs

objectives and student learning outcomes. For doctoral and master's

attributes that are guided by a set of institutionally vetted educational

in all graduate students a broad class of developmental and educational

and their role in contemporary society. Mines, therefore, seeks to instill

perspectives that also enhance students' understanding of themselves

with perspectives informed by the humanities and social sciences,

earth system upon which all life and development depend. To this end,

improve the quality of life of the world's inhabitants and to sustain the

to the discovery, production, and utilization of resources needed to

Environment, Mines places particular emphasis on those fields related

the importance of responsible stewardship of the Earth, Energy, and

and related areas that support the institutional mission. Recognizing

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Environment, Mines places particular emphasis on those fields related
to the discovery, production, and utilization of resources needed to

improve the quality of life of the world's inhabitants and to sustain the

earth system upon which all life and development depend. To this end,
Mines is devoted to creating a learning community that provides students

with perspectives informed by the humanities and social sciences,

perspectives that also enhance students' understanding of themselves

and their role in contemporary society. Mines, therefore, seeks to instill
in all graduate students a broad class of developmental and educational
attributes that are guided by a set of institutionally vetted educational
objectives and student learning outcomes. For doctoral and master's
degree programs, these are summarized below.

Graduate Education

The Colorado School of Mines is dedicated to serving the people of
Colorado, the nation and the global community by providing high quality
educational and research experiences to students in science, engineering
and related areas that support the institutional mission. Recognizing
the importance of responsible stewardship of the Earth, Energy, and
Environment, Mines places particular emphasis on those fields related
to the discovery, production, and utilization of resources needed to

improve the quality of life of the world's inhabitants and to sustain the

earth system upon which all life and development depend. To this end,
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in all graduate students a broad class of developmental and educational
attributes that are guided by a set of institutionally vetted educational
objectives and student learning outcomes. For doctoral and master's
degree programs, these are summarized below.

Doctoral Programs

Institutional Educational Objectives:

1. PhD graduates will advance the state of the art of their discipline
   (integrating existing knowledge and creating new knowledge) by
   conducting independent research that addresses relevant disciplinary
   issues and by disseminating their research results to appropriate
   target audiences.
2. PhD graduates will be scholars and international leaders who exhibit
   the highest standards of integrity.
3. PhD graduates will advance in their professions and assume
   leadership positions in industry, government, and academia.

Institutional Student Outcomes:

1. Demonstration of exemplary disciplinary expertise.
2. Demonstration of a set of skills and attitudes usually associated
   with our understanding of what it is to be an academic scholar (e.g.,
   intellectual curiosity, intellectual integrity, ability to think critically
   and argue persuasively, the exercise of intellectual independence, a
   passion for life-long learning, etc.).
3. Demonstration of a set of professional skills (e.g., oral and written
   communication, time-management, project planning, teaching,
   teamwork and team leadership, cross-cultural and diversity
   awareness, etc.) necessary to succeed in a student's chosen career
   path.

Master's Programs

The Colorado School of Mines offers a wide variety of Master's-level
degree programs that include thesis and non-thesis Master of Science
programs, Master of Engineering programs and Professional Master's
programs. While the objectives and outcomes provided below document
expectations of all Master's-level programs, it is expected that given
the diversity of program types, different programs will emphasize some
objectives and outcomes more than others.

Institutional Educational Objectives:

1. Master's graduates will contribute to the advancement of their chosen
   fields through adopting, applying and evaluating state-of-the-art
   practices.
2. Master's graduates will be viewed within their organizations as
   technologically advanced and abreast of the latest scholarship.
3. Master's graduates will exhibit the highest standards of integrity in
   applying scholarship.
4. Master's graduates will advance in their professions.

Institutional Student Outcomes:

1. Graduates will demonstrate exemplary disciplinary expertise.
2. Graduates will demonstrate the ability to conduct direct research, the
   ability to assimilate and assess scholarship, and the ability to apply
   scholarship in new, creative and productive ways.
3. Graduates will demonstrate professional skills (e.g., oral and written
   communication, time-management, project planning, teamwork and
   team leadership, cross-cultural and diversity awareness, ethics, etc.)
necessary to succeed in a student's chosen career path.

Research

The creation and dissemination of new knowledge are the primary
responsibilities of all members of the university community and
fundamental to the educational and societal missions of the institution.
Public institutions have an additional responsibility to use that knowledge
to contribute to the economic growth and public welfare of the society
from which they receive their charter and support. As a public institution
of higher education, a fundamental responsibility of Mines is to provide an
environment that enables contribution to the public good by encouraging
creative research and ensuring the free exchange of ideas, information,
and results. To this end, the institution acknowledges the following
responsibilities:

• To ensure that these activities are conducted in an environment of
  minimum influence and bias, it is essential that Mines protect the
  academic freedom of all members of its community.
• To provide the mechanisms for creation and dissemination of
  knowledge, the institution recognizes that access to information
  and information technology (e.g., library, computing and internet
  resources) are part of the basic infrastructure support to which every
  member of the community is entitled.
• To promote the utilization and application of knowledge, it is
  incumbent upon Mines to define and protect the intellectual-property
rights and responsibilities of faculty members, students, as well as the institution.

- To ensure integration of research activities into its basic educational mission, its research policies and practices conform to the state non-competition law requiring all research projects have an educational component through the involvement of students and/or post-doctoral fellows.

**Intellectual Property**

The creation and dissemination of knowledge are the primary responsibilities of all members of the university community. As an institution of higher education, a fundamental mission of Mines is to provide an environment that motivates the faculty and promotes the creation, dissemination, and application of knowledge through the timely and free exchange of ideas, information, and research results for the public good. To ensure that these activities are conducted in an environment of minimum influence and bias, so as to benefit society and the people of Colorado, it is essential that Mines protect the academic freedom of all members of its community. It is incumbent upon Mines to help promote the utilization and application of knowledge by defining and protecting the rights and responsibilities of faculty members, students and the institution, with respect to intellectual property which may be created while an individual is employed as a faculty member or enrolled as a student.

**History of Colorado School of Mines**

In 1865, only six years after gold and silver were discovered in the Colorado Territory, the fledgling mining industry was in trouble. The nuggets had been picked out of streams and the rich veins had been worked, and new methods of exploration, mining, and recovery were needed.

Early pioneers like W.A.H. Loveland, E.L. Berthoud, Arthur Lakes, George West and Episcopal Bishop George M. Randall proposed a school of mines. In 1874, the Territorial Legislature appropriated $5,000 and commissioned Loveland and a Board of Trustees to found the Territorial School of Mines in or near Golden. Governor Routt signed the Bill on February 9, 1874, and when Colorado became a state in 1876, the Colorado School of Mines was constitutionally established. The first diploma was awarded in 1883.

As Mines grew, its mission expanded from the rather narrow initial focus on nonfuel minerals to programs in petroleum production and refining as well. Recently, it has added programs in materials science and engineering, energy and environmental engineering, and a broad range of other engineering and applied science disciplines. Mines sees its mission as education and research in engineering and applied science with a special focus on the earth science disciplines in the context of responsible stewardship of the earth and its resources.

Mines long has had an international reputation. Students have come from nearly every nation, and alumni can be found in every corner of the globe.

**Location**

Golden, Colorado, has always been the home of Mines. Located in the foothills of the Rocky Mountains 20 minutes west of Denver, this community of 15,000 also serves as home to the Coors Brewing Company, the National Renewable Energy Laboratory, and a major U.S. Geological Survey facility that also contains the National Earthquake Center. The seat of government for Jefferson County, Golden once served as the territorial capital of Colorado. Skiing is an hour away to the west.

**Administration**

By State statute, the school is managed by a seven-member board of trustees appointed by the governor, and the student and faculty bodies elect one nonvoting board member each. The school is supported financially by student tuition and fees and by the State through annual appropriations. These funds are augmented by government and privately sponsored research, private gift support from alumni, corporations, foundations and other friends.

**Colorado School of Mines Non-Discrimination Statement**

In compliance with federal law, including the provisions of Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendment of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, the ADA Amendments Act of 2008, Executive Order 11246, the Uniformed Services Employment and Reemployment Rights Act, as amended, the Genetic Information Nondiscrimination Act of 2008, and Board of Trustees Policy 10.6, the Colorado School of Mines does not discriminate against individuals on the basis of age, sex, sexual orientation, gender identity, gender expression, race, religion, ethnicity, national origin, disability, military service, or genetic information in its administration of educational policies, programs, or activities, admissions policies, scholarship and loan programs, athletic or other school-administered programs, or employment.

Inquiries, concerns, or complaints should be directed by subject content as follows:

EO and Discrimination contact:
Human Resources Office
1500 Illinois Street
Golden, Colorado 80401

The ADA Coordinator and the Section 504 Coordinator for employment:
Human Resources Office
1500 Illinois Street
Golden, Colorado 80401

The ADA Coordinator and the Section 504 Coordinator for students and academic educational programs:
Maria Draper, Director of Disability Support Services
Ben H. Parker Student Center, Suite E110
Golden, Colorado 80401
(Telephone: 303.273.3297)

The Title IX Coordinator:
Katie Schmalzel, Director of Title IX Programs
Golden, Colorado 80401
(Telephone: 303.273.3206)
(email: kschmalz@mines.edu)

The ADA Facilities Access Coordinator:
Gary Bowersock, Director of Facilities Management
1318 Maple Street
Golden, Colorado 80401
(Telephone: 303.273.3330)