



Institutional Objectives and Outcomes for Masters Education

The Colorado School of Mines offers a wide variety of Masters-level degree programs that include thesis and non-thesis Master of Science programs, Master of Engineering programs, Professional Masters programs and a Master of International Political Economy of Resources. While the objectives and outcomes provided below document expectations for all Masters-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:

- A) Masters graduates will contribute to the advancement of their chosen fields through adopting, applying and evaluating state-of-the-art practices.
- B) Masters graduates will be viewed within their organizations as technologically advanced and abreast of the latest scholarship.
- C) Masters graduates will exhibit the highest standards of integrity in applying scholarship.
- D) Masters graduates will advance in their professions.

Institutional Student Outcomes:

- 1) Graduates will demonstrate exemplary disciplinary expertise.
- 2) Graduates will demonstrate the ability to conduct directed 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.

Institutional Objectives and Outcomes for Doctoral Education

Institutional Educational Objectives:

- A) 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.
- B) PhD graduates will be scholars and international leaders who exhibit the highest standards of integrity.
- C) 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.