The Mines chemistry graduate program offers thesis-based and non-thesis MS options in chemistry and a PhD in applied chemistry. The department maintains a high-quality, well-funded research program, with student participation at both the graduate and undergraduate level. The research program in the department emphasizes interdisciplinary approaches to solving real world problems in areas such as sustainability, alternative energy, materials, bio-detection, nanomedicines and water quality assessment.

DEGREE OPTIONS

- **Doctor of Philosophy**: 72 credit hours, comprised of at least 15 credit hours of course work and at least 24 credit hours of thesis research. Doctoral students must pass the comprehensive exam and successfully defend a satisfactory thesis.

- **Master of Science** (thesis based): 36 credit hours, comprised of at least 24 credit hours of course work (15 of which must be taken at Mines).

- **Master of Science** (non-thesis): 30 credit hours, comprised of 24 credit hours of coursework and 6 credit hours of independent study.
RESEARCH AREAS

- Analytical and bioanalytical chemistry
- Energy sciences
- Environmental chemistry
- Geochemistry and biogeochemistry
- Inorganic chemistry
- Nanoscale materials
- Organic chemistry
- Physical and computational chemistry
- Polymers

FINANCIAL AID

Incoming students are provided teaching assistantships during the academic year and are expected to join research groups that provide research assistantships during the summer. In addition to paying a stipend, teaching and research assistantships cover tuition, health insurance and most student fees.

APPLICATION INFORMATION

- Candidates should have completed an undergraduate program in chemistry. Undergraduate deficiencies will be determined by faculty through interviews at the beginning of the student’s first semester of graduate work.
- The department has no minimum GPA requirement.
- The Graduate Record Examination (GRE) is required.

DOMESTIC APPLICATION DEADLINE: JULY 1

WITH ADDITIONAL QUESTIONS, CONTACT:
Office of Graduate Admissions
303-273-3247 | grad-app@mines.edu

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