The Mines applied mathematics and statistics graduate program prepares the next generation of leading mathematical and statistical researchers, both in the private and public sectors for a world driven by increasingly complex technology and scientific challenges. Graduates of the MS and PhD programs work in a variety of different sectors, including technology, engineering, finance and academia. Recent graduates have obtained positions at companies like Northrop Grumman and Oppenheimer Funds, as well as national laboratories and both teaching- and research-oriented universities.

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- **Master of Science (thesis based)**: 30 credit hours, comprised of 6 required courses, 2 elective courses and an additional 6 credit hours of research.

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- Numerical methods for partial differential equations
- Study of differential and integral equations
- Dynamical systems
- Mathematical biology
- Computational radiation transport
- Computational acoustics and electromagnetics

**Statistics**
- Inverse problems in statistics
- Multivariate statistics
- Spatial statistics
- Stochastic models for environmental science
- Survival analysis
- Uncertainty quantification

**Program Admission Requirements**

- A bachelor’s degree with a grade-point average of 3.0 or better on a 4.0 scale.
- Graduate Record Examination (GRE) with quantitative section score of 151 or higher (or 650 on the old scale). Applicants who have graduated from Mines within the past five years are not required to submit GRE scores.
- For international applicants or applicants whose native language is not English, a TOEFL score of 79 or higher (or 550 for the paper-based test, 213 for the computer-based test) is required. In lieu of a TOEFL score, an IELTS score of 6.5 or higher will be accepted.

**Domestic Application Deadline:** July 1

With additional questions, contact:

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