

# DEPARTMENT OF APPLIED MATHEMATICS & STATISTICS

AMS.MINES.EDU



## PROGRAM SCOPE

The Applied Mathematics and Statistics degree at Mines is accessible to students with or without prior programming experience, and reflects a mixture of theory and application. Students are exposed to a mix of computational and applied mathematics with statistics. Math modeling and scientific computing are emphasized to provide students the technical and soft skills necessary to be successful in both graduate school and industry.

90%

Placement rate for  
2015-16 Bachelor's  
graduates\*

\$60,807

Average starting salary  
for 2015-16 Mines  
AMS graduates\*

21%

2014-24 projected  
job market  
growth<sup>§</sup>

\*Information is from the 2015-16 Mines Career Center Outcomes Survey; <sup>§</sup>BLS.gov

## CAREER OPPORTUNITIES

Students and graduates find positions in several different sectors including technology, engineering, and financial companies. Jobs for mathematicians and statisticians are currently experiencing a higher than average growth, which is projected to continue, and professionals generally report high job satisfaction.

## STUDENT EXPERIENCE & HANDS-ON LEARNING

Hands-on learning is not confined to the classroom at Mines. There are a number of clubs and competitions in which students can get involved.

- Mines Math Club
- Society of Women in Math (SWiM)
- Actuarial Science Club
- Putnam Club

## AREAS OF STUDY

### DEGREES OFFERED

- ✓ **Computational & Applied Mathematics**  
Bachelor's, Master's and PhD
- ✓ **Statistics**  
Bachelor's, Master's and PhD

### EXAMPLE AMS ELECTIVE COURSES

- Asymptotics
- Complex Analysis
- Integral Equations
- Mathematical and Computational Neuroscience
- Parallel Computing
- Spatial Statistics
- Stochastic Modeling
- Survival Analysis



# SCOPE OF OPPORTUNITIES IN APPLIED MATHEMATICS & STATISTICS



## AMS LEARNING CENTER

Located in the Arthur Lakes Library, the AMS Learning Center provides free tutoring services to all Mines students. Tutors are well equipped and trained to assist with all core math courses, in addition to required math degree courses. Opportunities to build your resume as a mathematics tutor or grader are available.



## CENTRALIZED STUDENT RESOURCE PORTAL

The AMS Student Resource Portal is a one-stop shop for departmental announcements and resources. The portal is a centralized place for the department's weekly newsletter, departmental events, scholarships and opportunities within professional development, research, networking and internship/employment.



## TEA TIME

The AMS Department hosts weekly Tea Time for faculty and students on Mondays from 3-4 p.m. in the Chauvenet Hall Conference Room. This is a great opportunity to meet fellow AMS undergraduate and graduate students, chat with professors/advisors and enjoy a break in the day.



## COLLOQUIUM FOR FACULTY & GRADUATE STUDENTS

The AMS Department hosts guest speakers from around the world to talk about trends and research in the field of Applied Mathematics and Statistics. This event is held every other Friday afternoon, with the alternating Friday open to graduate and undergraduate students to practice presenting their research to peers without faculty involvement.



## COMPUTER LABS

The newly renovated Ryan Sayers lab, located in Chauvenet Hall, is home to over 40 Windows and Linux machines. The new lab hosts classes, student clubs and open lab hours. In addition, there are eight Linux computers available in Chauvenet Hall that are open for student use at all times.

## CONTACT THE DEPARTMENT OF APPLIED MATHEMATICS AND STATISTICS

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