

## FINANCIAL MATH STUDENT ASSOCIATION

The Financial Math Association (FMA) is a group of MFM and other quantitative students on campus. They bring alumni to their meetings to discuss their success strategies, organize an annual trip to meet with Chicago firms and sponsor local quant finance networking events. <http://www.tc.umn.edu/~fma/>

## MFM PLACEMENT

Placement ranges between 86% and 95%. Most students land jobs within 6 months of graduation. <http://www.math.umn.edu/mcfam/careers/>

## TESTIMONIALS

### **Anuradah Sharma, Associate-Morgan Stanley; New York, NY; MFM Class of 2014**

The program was the best fit in my cost-benefit analysis. Academic worth is the same as the more expensive programs on the coasts with the bonus of a huge job market in Minneapolis and Chicago, and a charming campus in a beautiful metro area.

### **Will Elliott, Investment Operations Associate- Allianz; Golden Valley, MN- MFM Class of 2016**

The job I am doing now is a mesh between my past engineering career and my MFM coursework. Understanding the math behind swaps, options and futures comes into play a lot. But the MFM also gave me the ability to understand more complex strategies and exotics. The exposure we got to C# and SQL Server is critical in my current work.



## *Undergraduate*

## ACTUARIAL SPECIALIZATION

A Major in Mathematics with an Actuarial Specialization, awarded either through the College of Science and Engineering (B.S. Mathematics), or the College of Liberal Arts (B.A. Mathematics).

- High academic standards, a strong foundation in mathematics, and "real-world" courses taught by faculty and practicing actuaries.
- Courses and workshops that prepare you for the actuarial exams.
- Society of Actuaries and Casualty Actuarial Society approved courses that will enable you to complete your Validation by Educational Experience (VEE) requirements while in college.
- Individualized academic advising focused on the needs of each individual.
- Career development and advancement with personalized career coaching that prepares you to begin a successful career.
- An Actuarial Mentoring program with actuaries from the large, local insurance industry.
- An active Actuary Club run by students that do career fairs and other informational sessions with industry.

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Published by School of Mathematics - MCFAM

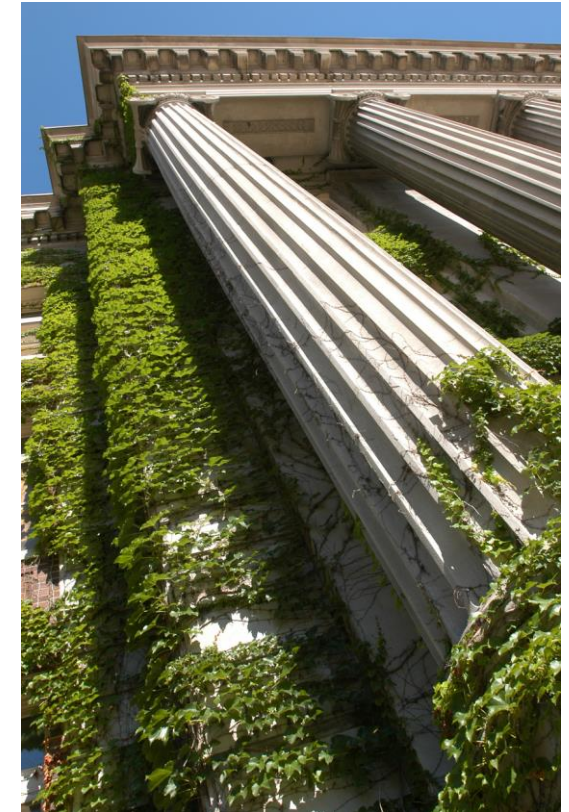
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## MCFAM

## Minnesota Center for Financial and Actuarial Mathematics



MASTER OF FINANCIAL  
MATHEMATICS

UNIVERSITY OF MINNESOTA  
**Driven to Discover**<sup>SM</sup>

## MCFAM

MCFAM is the University of Minnesota's Center for all Financial and Actuarial Mathematics programs within the College of Science and Engineering's School of Mathematics. We provide students, employers and the overall financial and actuarial mathematics communities an interdisciplinary framework combining faculty and industry expertise in shaping academic, and professional excellence and integrity.

## MASTER OF FINANCIAL MATHEMATICS (MFM)

The Master of Financial Mathematics program offers a great mix of academic and industry preparation for your career:

- High quality theoretical and applied curriculum
- Dedicated faculty and adjuncts from industry
- A network of renowned lecturers
- Vibrant quantitative finance sector
- Strong local economy
- Career workshops and individualized coaching
- Close-knit, worldwide alumni network
- Strong alumni placement record

MFM courses are offered in the evenings to accommodate working professionals who are part-time students and to give full time students the opportunity to obtain internships and industry specific projects.

## WHAT IS FINANCIAL MATHEMATICS?

Financial mathematics is the application of mathematical methods to solve problems in finance. The field is also called quantitative finance and draws on tools from applied mathematics, computer science, statistics, and economic theory. Banks, hedge funds, insurance companies, corporate treasuries, and regulatory agencies employ people with a background in financial mathematics. They address problems such as new product development, derivative securities valuation, data science and analytics, portfolio structuring, market, operational and credit and risk stress testing.

## MFM CURRICULUM

The MFM curriculum is structured with a balance between theory and practice. It features rigorous coursework in mathematics, statistics, computation, algorithms and coding in finance alongside a practicum course involving a variety of modules taught by industry professionals. In order to provide additional experience, students participate in an intensive modeling workshop in which they work in teams on a project mentored by industry practitioners.

<http://www.math.umn.edu/finmath/courses/>

## MFM MODELING WORKSHOP

The MFM holds a 10-day workshop on Financial Mathematics Modeling every winter between fall and spring semester. Students work in teams under the guidance of a financial modeling mentor. The mentor guides the students in the modeling process, analysis and computational work associated with a real-world problem. Each team makes a final presentation to all workshop attendees and mentors, and submits a written report at the end of the 10-day period. Industry mentors from a variety of firms participate in the annual event including: Cargill Risk Management, Whitebox Advisors, Wells Fargo, US Bank and Galliard Capital Management.

[http://www.math.umn.edu/finmath/modeling/index\\_2015.shtml](http://www.math.umn.edu/finmath/modeling/index_2015.shtml)

## FUNDAMENTALS OF QUANTITATIVE FINANCE (FQF)

We offer a post-baccalaureate certificate entitled *Fundamentals of Quantitative Finance (FQF)*. This is a program that can help you prepare for a Master of Financial Mathematics (MFM) as it gives you a refresher on key mathematical concepts crucial to understanding the more advanced work done in the MFM.

<http://www.math.umn.edu/finmath/certificate/>

