

## Master of Actuarial and Quantitative Risk Management

Department of Mathematics Graduate Office 102 Mathematics Building 231 West 18th Avenue Columbus, Ohio 43210

## Who Should Apply?

**Recent college graduates** with a strong background in quantitative fields, such as mathematics, statistics, physics, economics, computer science, accounting, finance, engineering or actuarial science.

**Prospective actuaries** interested in changing career paths or transitioning into the actuarial, finance or banking fields.

## **Program Synopsis**

The Master of Actuarial and Quantitative Risk Management (MAQRM) program is a 3-4 semester long graduate program which provides innovative interdisciplinary training in actuarial science, quantitative finance, and data science. The curriculum includes advanced courses in risk management, stochastic calculus and data analytics along with more traditional skill training in actuarial science, financial economics, statistics and numerical analysis.

### **Learning Outcomes**

Students in the MAQRM program will acquire proficiency in the core subjects of actuarial and financial mathematics. Those who choose the traditional actuarial science direction will acquire proficiency in the areas covered by the actuarial exams administered by the Society of Actuaries and the Casualty Actuarial Society. Students may also choose a traditional financial engineering track. Or they may create a hybrid program focusing on the development of cutting-edge tools used in their preferred career path.

#### Annual Career Fair

The annual Ohio State Actuarial Science Career Fair affords the exclusive opportunity for actuarial science students to network and interview with actuaries from major insurance companies and consulting firms from around the United States.

#### Nationwide Mentoring Program

Get paired with a senior actuary or quantitative hedging mentor at Nationwide. Join our large Ohio State University alumni community, network, and learn about important real-world information about your potential career path before you graduate.

#### **Thesis Options**

Students may choose to complete the degree via either a thesis option or a non- thesis culminating examination. Either option provides students the opportunity to showcase their subject matter expertise. The thesis option may be especially valuable for students considering eventually pursuing another advanced degree. Past students have completed thesis research in areas such as financial engineering, biostatistics, and machine learning.

#### Practicum Experience

Students enroll in our seminar series to meet with prospective employers to discuss career development strategies and networking. We keep our program small to ensure all students receive the resources they need to succeed. Hands on and 1-1 training through presentations and class projects will be given by practicing actuaries or quantitative finance professionals on topics drawn from their fields.

## Connections with Employers

The program utilizes connections to leaders in the national insurance industry and other businesses involved in risk management. These allow us to create practical experiences, provide additional mentoring during the program's two years of study and assist with matching students with internships and future job placement of graduates. Most MAQRM students complete at least one internship prior to graduation, and past students in the program have found employment after their first year of study with industry leaders like *Nationwide*, *KeyBank*, *DHL*, *Humana*, *Encova Insurance and Westfield Insurance*, among others.

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#### CONTACT

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