



CONTACT INFORMATION

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RISK ANALYSIS & MANAGEMENT PROGRAM
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FIU FLORIDA
INTERNATIONAL
UNIVERSITY



Our Program:

RISK ANALYSIS & MANAGEMENT

**MASTER OF SCIENCE IN
MATHEMATICS**



APPLY NOW:

<http://gradschool.fiu.edu/admissions.html>



The Risk Analysis and Management is a Masters Program offered by the Department of Mathematics & Statistics at FIU. It is the only program of its kind in a public university in South Florida.

The Risk Analysis and Management Program is composed of 12 three credit graduate courses. 8 required courses and 4 elective courses, based on student's interest. The degree can be completed in 12 months (express track) or two years (normal track). Students must complete requirements in six years.

Students who choose this degree will gain an edge for jobs in banks, investment firms, public utilities, corporations that use hedge funds and other financial instruments.

Over twenty years after Merton and Scholes were awarded the Nobel Peace Prize in Economics for their work in the analysis of risk and return, the demand for financial mathematicians is greater than ever.

Eligibility Requirements

1. Bachelor's degree in Mathematics or another quantitative science
2. 3.0 GPA
3. Graduate Record Examination score of at least 650 on the quantitative portion and 500 on verbal portion
4. Three letters of recommendation concerning the candidate's achievement and potential, from persons familiar with the candidate's previous academic performance

Course Requirements

Required courses (8):

- MAP 6631 Introduction to Risk Analysis and Management
- MAP 6635 Risk Analysis and Management I
- MAP 6636 Risk Analysis and Management II
- MAD 5405 Numerical Methods in Finance
- MAP 6218 Stochastic Calculus and Differential Equations
- MAP 5117 Mathematics and Statistics Modeling in Finance
- MAP 6632 PDE for Finance
- CAP 5768 Introduction to Data Science

Elective courses (choose 4):

- MAA 6616 Real Analysis
- MAP 5204 Optimization and Linear Algebra
- MAP 6637 Risk Analysis and Management III
- ECO 7429 Topics in Econometrics
- FIN 6426 Financial Management Policies
- FIN 6428 Corporate finance
- FIN 6487 Financial Risk Management
- FIN 6515 Security Analysis
- FIN 6538 Financial futures and fixed income derivatives
- CAP 5610 Introduction to Machine Learning
- CAP 5771 Principles of data mining
- CAP 6619 Advanced topics in machine learning
- ECP 6305 Advanced environmental economics
- ENV 6614 Environmental Risk Management
- STA 6326 Mathematical Statistics I

Above courses are not exhaustive, and can be substituted by other courses upon approval by program advisor.

Admission

Admission to the program requires applicants to have a firm grasp of mathematics at a high undergraduate level. This means Calculus through Multivariable Calculus, Linear Algebra and Differential Equations. Knowledge in Probability, Statistics, Computer Programming, Economics or Finance is recommended but not required. A student with promise but lacking prerequisites may be admitted after taking two preparatory courses offered in the Spring and Summer



Tuition

For the academic year is:

***In State: Approximately \$1400 per three credit course**

***Out of State: Approximately \$3000 per three credit course**

For more information:

<https://onestop.fiu.edu/finances/estimate-your-costs/graduate-tuition-fees/>

Some financial SUPPORT is available.