Quantitative Finance

BS in Management with a concentration in Quantitative Finance

Recent innovations in financial markets have led to an increased demand for analytically-skilled students. Understanding pricing models in derivatives and other exotic securities requires knowledge in finance and statistics, stochastic processes and differential equations. The financial engineering program is designed to provide students with opportunities to pursue a mathematically challenging program of study. Students who pursue a quantitative finance concentration will be on track for placement at investment banks.

Concentration Requirements and Course Descriptions

Students interested in the Quantitative Finance concentration must show superior quantitative skills by having earned 56 credits, a minimum GPA of 3.5 and having achieved a grade of B or higher in FIN 311. In addition to the standard core course curriculum for the management degree, to fulfill a concentration in Quantitative Finance, students are required to complete eight required QUANT FIN courses and one additional elective.

Required Coursework
- MATH 224 & MATH 225 - Calculus I
- MATH 226 & MATH 227 - Calculus II
- MATH 304 - Linear Algebra
- ECON 466 - Introduction to Econometrics
- FIN 322 - Investments*
- FIN 450 - Derivatives** (once per year)
- FIN 465 - Arbitrage Strategies**
- SCM 360 - Spreadsheet Modeling & Decision Making***

*Prerequisites - FIN 311
**Prerequisites - FIN 311 & FIN 322
***Prerequisites - Completion of S-Core coursework

Elective Coursework
(Select one of the following)
- FIN 324 - Corporate Finance*
- FIN 430 - Financial Statement Analysis** (Fall)
- FIN 440 - Fixed Income Securities* (Spring)

*Prerequisites - FIN 311
**Prerequisites - FIN 311 & FIN 324

Select special topics courses available. Please see Finance faculty or Advising for approval.

PLEASE NOTE: Courses are typically offered in specified semesters, however, semesters offered are subject to change based on instructor availability.

Additional information regarding the Business Analytics concentration is available at:
rebrand.ly/SOMUndergradConcentrations

Full course descriptions are available in the Binghamton University Bulletin:
rebrand.ly/BinghamtonBulletin

Updated course schedules are available on BU Brain, accessible through myBinghamton:
my.binghamton.edu