

# Quantitative Methods and Modeling

- [For additional program information see the Zicklin School website](#)

The MS in quantitative methods and modeling (QMM) is a 30-credit program. The QMM program is designed to provide a broad spectrum of basic quantitative skills; thus, the required specialization courses span the areas of operations research, statistics, and computer information systems. The flexible elective requirements permit the creation of a five-course quantitative sequence tailored to a student's professional and/or educational objectives. Students also have the option of doing a graduate internship. The list of preliminary and specialization courses is given below.

<b>Preliminary Courses</b> (7.5 - 9 credits)		
Students with an appropriate background will be able to reduce the number of credits in preliminary requirements. Grades in 8000-level courses are not calculated in the grade point average. English language modules offered by the Division of Continuing and Professional Studies are required for non-native English speakers, and may be waived based on a waiver exam.		
<a href="#">*MTH 8001</a>	Calculus for Applications I*	3 credits
<a href="#">ACC 9110</a>	Financial Accounting	3 credits
<b>or</b>		
<a href="#">ECO 9730</a>	Fundamentals of Microeconomics	1.5 credits
<a href="#">STA 9708</a>	Applied Statistical Analysis for Business Decisions	3 credits
<b>Courses in Specialization</b> (30 credits)		
<b>Required</b> (16.5 credits)		
<a href="#">CIS 9001</a>	Information Systems for Managers I	1.5 credits
<a href="#">CIS 9340</a>	Principles of Database Management Systems	3 credits
<a href="#">OPR 9721</a>	Introduction to Quantitative Modeling	3 credits
<a href="#">OPR 9730</a>	Simulation Modeling and Analysis	3 credits
<a href="#">STA 9000</a>	Regression and Forecasting Models for Business Applications	3 credits
<a href="#">STA 9750</a>	Basic Software Tools for Data Analysis ( <a href="#">OPR 9750</a> )	3 credits
<b>Electives</b> (13.5 credits)		
Five courses to be selected with approval of the department advisor. It is recommended that the student select at least one course in each of the three areas: OPR, STA, and CIS. A maximum of three courses may be selected from any one area. Students may select		
<a href="#">BUS 9801 - BUS 9803</a>		
or an approved quantitatively oriented course offered outside the department.		

\*Students may substitute MTH 2207 Applied Calculus and Matrix Applications on a space-available basis.