

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.

Preliminary Courses (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.		
MTH 8001	Calculus for Applications I	3 credits
ACC 9110	Financial Accounting	3 credits
or		
ECO 9730	Fundamentals of Microeconomics	1.5 credits
STA 9708	Applied Statistical Analysis for Business Decisions	3 credits
Courses in Specialization (30 credits)		
Required (16.5 credits)		
CIS 9001	Information Systems for Managers I	1.5 credits
CIS 9340	Principles of Database Management Systems	3 credits
OPR 9721	Introduction to Quantitative Modeling	3 credits
OPR 9730	Simulation Modeling and Analysis	3 credits
STA 9000	Regression and Forecasting Models for Business Applications	3 credits
STA 9750	Basic Software Tools for Data Analysis (OPR 9750)	3 credits
Electives (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		
BUS 9801 - BUS 9803		
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.