

# Decision Sciences

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

The decision sciences and quantitative methods and modeling majors are designed to train students in the application of mathematical models and decision making in business, industry, and government. An MBA program in decision sciences and an [MS program in Quantitative Methods and Modeling](#) are offered. Both provide students with the concepts and skills that form the fundamental base of knowledge essential to quantitative-decision-making professionals in today's business environment.

The MBA program in decision sciences is designed primarily for those who employ operations research methods in an applied discipline or who are responsible for managing or interfacing with an operations research department. The MS program in quantitative methods and modeling is designed to provide a broad spectrum of basic quantitative skills. The MBA and MS programs are given within the Department of Statistics and Computer Information Systems.

[View MBA degree requirements](#)

## Major Courses (12 credits)

Required		
<a href="#">OPR 9721</a>	Introduction to Quantitative Modeling	3 credits
<a href="#">OPR 9730</a>	Simulation Modeling and Analysis	3 credits
Elective Courses		
Choose two courses from (6 credits):*		
<a href="#">CIS 9340</a>	Principles of Database Management Systems	3 credits
<a href="#">OPR 9750</a>	Basic Software Tools for Data Analysis	3 credits
<a href="#">OPR 9783</a>	Stochastic Processes for Business Applications ( <a href="#">STA 9783</a> )	3 credits
<a href="#">OPR 9793</a>	Special Topics in Operations Research (formerly <a href="#">OPR 9773</a> )	3 credits
<a href="#">STA 9660</a>	Data Mining for Business Analytics ( <a href="#">CIS 9660</a> )	3 credits
<a href="#">STA 9700</a>	Applied Regression Analysis	3 credits
<a href="#">STA 9715</a>	Applied Probability	3 credits

\*The student may select one 3-credit course from Department of Statistics and Computer Information Systems or one 3-credit quantitative course from outside the department. Selecting the course from outside the department requires the approval of the advisor.