

Information Systems (MS)

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

Today's competitive business environment requires technologies that provide companies with a strategic edge and enable businesses to run at maximum efficiency. The information systems majors provide students with the managerial and technological skills that support these goals. Two degree programs are offered: the Master of Science in information systems and the [Master of Business Administration in information systems](#).

The MS program is a concentration of 30 credits in major-related courses. It provides the concepts, strategies, and techniques necessary for this dynamic field. The program focuses on business areas driven by information technologies, including database management systems, e-business development, and analysis and design. The MS also provides study in other areas of interest, such as information technology in the financial markets and IT project management. The MS provides more in-depth treatment of information systems than the MBA. Also, the MS features an abbreviated business core curriculum of up to six credits (waivable in full or in part, for students with prior academic background).

Preliminary Courses (6 credits)		
Students with appropriate academic background will be able to reduce the number of credits in preliminary requirements. English language courses offered by the Continuing and Professional Studies area are required for non-native English speakers; the courses may be waived based on a waiver exam.		
ACC 9110	Financial Accounting	3 credits
FIN 9770	Financial Decision Making	3 credits
Courses in Specialization (30 credits)		
Required (15 credits)		
CIS 9001	Information Systems for Managers I (with CIS 9002 formerly CIS 9000)	1.5 credits
CIS 9002	Information Systems for Managers II (with CIS 9001 formerly CIS 9000)	1.5 credits
CIS 9230	Globalization and Technology	3 credits
CIS 9340	Principles of Database Management Systems	3 credits
CIS 9490	Systems Analysis and Design	3 credits
CIS 9590	Information Systems Development Project	3 credits
(Electives can be substituted for the above six courses given equivalent previous academic course background. Previously taken courses in CIS should be evaluated by the faculty advisor prior to registration.)		
Electives (15 credits) <i>Choose five courses from:</i>		
BUS 9801 - BUS 9803	Graduate Internships I, II, and III (in IS)	3 credits
CIS 9240	Sustainability and Information Technology	3 credits

CIS 9310	Object-Oriented Programming I	3 credits
CIS 9350	Networks and Telecommunications	3 credits
CIS 9410	Object-Oriented Programming II	3 credits
CIS 9440	Data Warehousing and Analytics	3 credits
CIS 9444	E-Business Principles and Technologies	3 credits
CIS 9445	Digital Media Management	3 credits
CIS 9467	Business Modeling with Spreadsheets	3 credits
CIS 9480	Information Technology Project Management	3 credits
CIS 9550	Emerging Trends in Information Technology	3 credits
CIS 9555	Information Technology in Financial Markets	3 credits
CIS 9556	Risk Management Systems	3 credits
CIS 9557	Business Intelligence	3 credits
CIS 9660	Data Mining for Business Analytics (STA 9660)	3 credits
CIS 9700	Integrating Information Technology and Business Processes	3 credits
CIS 9791	Special Topics in Information Systems Technologies	1.5 credits
CIS 9793 (formerly CIS 9771)	Special Topics in Information Technologies	3 credits
CIS 9795	Special Topics in Information Systems Strategy	1.5 credits
CIS 9797 (formerly CIS 9775)	Special Topics in Information Systems Strategy	3 credits
OPR 9721	Introduction to Quantitative Modeling	3 credits
STA 9708	Applied Statistical Analysis for Business Decisions	3 credits