

Information Systems (MS)

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

Today's competitive business environment requires that companies leverage Information Technology to gain a competitive edge and to operate efficiently. The Master of Science in Information Systems provides students with the managerial and technological skills that support these goals. The focused program consists of 30 credits in IS-related courses and an abbreviated business core (waivable based on prior academic background). Students take core courses in key topics such as database management systems, global issues in IT, systems analysis and design, and IS strategy and may customize their degree by selecting from diverse elective courses. Graduates of the program are employed in diverse industries in positions such as project managers, system developers, technology leads, IT managers, and systems analysts. The MS program conforms with the DHS - STEM program so that international students who graduate from the MS program may be eligible for an additional 17-month extension on their optional practical training (OPT).

Required for all MS Students*		
BUS 9551	Business Communication I	1.5 credits
or		
Program specific, 1.5 credit equivalent business communication instruction approved by the Graduate Curriculum Committee.		
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 9355	Cybersecurity	3 credits
CIS 9375	Social Technology and Business	
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 9650	Programming for Analytics	3 credits
CIS 9655	Data Visualization	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

*Effective spring 2016: Revised elective choices; BUS 9551 or equivalent.