

# 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).

<b>Required for all MS Students*</b>		
<a href="#">BUS 9551</a>	Business Communication I	1.5 credits
or		
Program specific, 1.5 credit equivalent business communication instruction approved by the Graduate Curriculum Committee.		
<b>Preliminary Courses (6 credits)</b>		
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.		
<a href="#">ACC 9110</a>	Financial Accounting	3 credits
<a href="#">FIN 9770</a>	Financial Decision Making	3 credits
<b>Courses in Specialization (30 credits)</b>		
<b>Required (15 credits)</b>		
<a href="#">CIS 9001</a>	Information Systems for Managers I (with CIS 9002 formerly CIS 9000)	1.5 credits
<a href="#">CIS 9002</a>	Information Systems for Managers II (with CIS 9001 formerly CIS 9000)	1.5 credits
<a href="#">CIS 9230</a>	Globalization and Technology	3 credits
<a href="#">CIS 9340</a>	Principles of Database Management Systems	3 credits
<a href="#">CIS 9490</a>	Systems Analysis and Design	3 credits
<a href="#">CIS 9590</a>	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.)		
<b>Electives (15 credits)*</b> Choose five courses from:		

<a href="#">BUS 9801 - BUS 9803</a>	Graduate Internships I, II, and III (in IS)	3 credits
<a href="#">CIS 9240</a>	Sustainability and Information Technology	3 credits
<a href="#">CIS 9310</a>	Object-Oriented Programming I	3 credits
<a href="#">CIS 9350</a>	Networks and Telecommunications	3 credits
<a href="#">CIS 9355</a>	Cybersecurity	3 credits
<a href="#">CIS 9375</a>	Social Technology and Business	
<a href="#">CIS 9410</a>	Object-Oriented Programming II	3 credits
<a href="#">CIS 9440</a>	Data Warehousing and Analytics	3 credits
<a href="#">CIS 9444</a>	E-Business Principles and Technologies	3 credits
<a href="#">CIS 9445</a>	Digital Media Management	3 credits
<a href="#">CIS 9467</a>	Business Modeling with Spreadsheets	3 credits
<a href="#">CIS 9480</a>	Information Technology Project Management	3 credits
<a href="#">CIS 9550</a>	Emerging Trends in Information Technology	3 credits
<a href="#">CIS 9555</a>	Information Technology in Financial Markets	3 credits
<a href="#">CIS 9556</a>	Risk Management Systems	3 credits
<a href="#">CIS 9557</a>	Business Intelligence	3 credits
<a href="#">CIS 9650</a>	Programming for Analytics	3 credits
<a href="#">CIS 9655</a>	Data Visualization	3 credits
<a href="#">CIS 9660</a>	Data Mining for Business Analytics ( <a href="#">STA 9660</a> )	3 credits
<a href="#">CIS 9700</a>	Integrating Information Technology and Business Processes	3 credits
<a href="#">CIS 9791</a>	Special Topics in Information Systems Technologies	1.5 credits
<a href="#">CIS 9793</a> (formerly <a href="#">CIS 9771</a> )	Special Topics in Information Technologies	3 credits
<a href="#">CIS 9795</a>	Special Topics in Information Systems Strategy	1.5 credits
<a href="#">CIS 9797</a> (formerly <a href="#">CIS 9775</a> )	Special Topics in Information Systems Strategy	3 credits
<a href="#">OPR 9721</a>	Introduction to Quantitative Modeling	3 credits
<a href="#">STA 9708</a>	Applied Statistical Analysis for Business Decisions	3 credits

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