

Master of Science: Enterprise Data Systems 2019- 2020 Advising Check Sheet

The 36-credit MS-EDS curriculum includes a 21-credit primary core requirement, a 12-credit secondary focus area requirement, a non-credit graduate seminar, and a capstone project exit requirement. The curriculum, typically completed within 2 years, combines core classes with electives to give you a strong foundation in data systems, along with the freedom to pursue courses that interest you.

Primary Core: 21 credits

This set of seven courses gives students an understanding and solid background of key concepts and procedures required to understand the technical, security, policy and management principles of current and future information systems. Students should complete 6 of the required courses in their first year.

Class #	Course Title	Completed
IST 614	Management Principles for Information Professionals	
IST 615	Cloud Management	
IST 618	Information Policy	
IST 623	Introduction to Information Security	
IST 651	Scripting Foundations for Enterprise Data Systems	
IST 658	Advanced Enterprise Network Management	
IST 687	Introduction to Data Science	

Secondary Focus Areas: 12 credits

The five secondary focus areas and the courses mentioned for each area are key to educating individuals who can achieve a detailed understanding of the requirements and issues related to the design and management of current and future information system infrastructures and services in digital enterprise environments. Students can take 12 credits out of any of the courses listed below in the different focus areas, but are strongly encouraged to take all 12 credits within one focus area. Focus Area credits can also be used toward a Certificate of Advanced Study (CAS) in Data Science or Information Security Management.

Cloud and Virtualized Information Environments

The courses in this focus area concentrate on planning, designing and managing modern and future networked and information environments that rely on virtualized and software-defined concepts.

Class #	Course Title	Completed
IST 639	Enterprise Technologies	
IST 643	Enterprise Services and Virtualized Systems	
IST 647	Network Virtualization	
IST 714	Cloud Architecture	
IST 726	Enterprise Architecture: Concepts and Practice	

Data Science Infrastructure & Applications

The courses in this focus area concentrate on topics related to the processing, management, and analysis of data and the information infrastructure and services that support modern enterprise data environments.

Class #	Course Title	Completed
IST 659	Data Administration Concepts & Database Management	
IST 718	Big Data Analytics	
IST 719	Information Visualization	
IST 722	Data Warehouse	
IST 769	Advanced Database Admin Concepts & Database Management	
IST 777	Statistical Methods in Information Science and Technology	

Enterprise IT Infrastructure Management

The courses in this focus area provide students with the capabilities to plan, analyze and manage current and future enterprise IT information environments along with an understanding of the economic, policy, risk and technical implications of their deployment and management.

Class #	Course Title	Completed
IST 619	Applied Economics for Information Managers	
IST 625	Enterprise Risk Management	
IST 643	Enterprise Services and Virtualized Systems	
IST 645	Managing Information Systems Projects	
IST 648	Enterprise Wireless Networks	
IST 654	Information Systems Analysis	
IST 683	Managing Information Technology-Enabled Change	

Information Security Management

The courses in this focus area concentrate on topics related to the planning, analysis, and management the information security policies, applications and infrastructure for modern and future enterprise information environments.

Class #	Course Title	Completed
IST 602	Digital Forensics	
IST 634	Security in Networked Environments	
IST 724	Database Security	
IST 728	Information Security Policy	

Mobile Services and Applications

The courses in this focus area concentrate on topics related to the planning, analysis, and management of enterprise mobile services and applications.

Class #	Course Title	Completed
IST 556	Mobile Network Services	
IST 643	Enterprise Services and Virtualized Systems	
IST 648	Enterprise Wireless Networks	
CIS 651	Mobile Application Programming	
CSE 691	Android Programming	

Graduate Immersion Seminar: Non- Credit, Required

The Graduate Immersion Seminar is a 2 to 3 day workshop that presents emerging topics in the information studies field, designed to bring together students from all graduate programs in the school. Three seminars are delivered each year. Students in the MS-EDS program must complete one seminar during the duration of their program of studies. For information on dates and topics, visit ischool.syr.edu/seminar.

Exit Requirement: 3 credits

IST 754, the MS-EDS Capstone project-based course, must be taken after the completion of 18 core course credits and the immersion seminar.

Class #	Course Title	Completed
IST 754	Capstone Project in Enterprise Data Systems	

*The MS Enterprise Data Systems program is not yet available online