

**Master of Science: Enterprise Data Systems-Fast Track
For SU IM&T Students Only
2020-2021 Advising Check Sheet**

The 36-credit Fast Track is an accelerated degree program for the MS in Enterprise Data Systems, and allows students to complete as many as nine (9) graduate credits by the time their undergraduate degree is conferred.

Students that plan to apply to be a fast track student in the MS Enterprise Data Systems program must have a background on networking by the time they enter the graduate program, thus they are encouraged to take networking classes, such as IST 452, as an undergraduate student. Those without relevant experience or a background in networking at the time they apply to the Fast Track program will be admitted on a conditional basis. ***This advising check sheet is for SU IM&T students only. Other fast-track students should consult with their advisor.***

Eligibility, Application Deadlines, and Fast-Track Timeline

Syracuse University undergraduate students in junior standing (between 54-83 total cumulative credits) are eligible for Fast Track. You are encouraged to apply by **February 1** or earlier; however, the deadline to indicate interest *and* apply is **May 1** of your junior year. Admission to the graduate program will be conditional based on completion of the undergraduate program.

Primary Core: 18 credits

Class #	Course Title	When to Enroll	Completed
IST 618	Information Policy*	FA/SP- Sr. Year	
IST 623	Introduction to Information Security*	FA/SP- Sr. Year	
IST 687	Introduction to Data Science*	FA/SP- Sr. Year	
IST 658	Advanced Enterprise Network Management	Fall / Masters year 1	
IST 651	Scripting Foundations for Enterprise Data Systems	Fall / Masters year 1	
IST 615	Cloud Management*	Fall / Masters year 1	

DISCLAIMER: Undergraduate coursework for specific graduate equivalent classes (ie: IST 323, or IST 387) must be at a B or better in order to not take the graduate equivalent class. While the equivalent undergrad course with a grade of B or better will fulfill the track requirement, a different graduate-level elective within the field must replace that substituted course/credits.

Secondary Focus Areas: 15 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 15 credits out of any of the courses listed below in the different focus areas, but are strongly encouraged to take all 15 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 Big Data 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	

**classes are also available as online classes in the quarter terms calendar, offered in partnership with 2SU. There are restrictions on these courses for specific groups of students so please reach out to your advisor for more information.*

Graduate Seminar: Non- Credit, Required

The Graduate Seminar is a residential 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 MSEDs 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 IST 615, IST 651, IST 658 and the Graduate Immersion Seminar.

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

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