

Master of Science: Applied Data Science Fast-Track 2020-2021 Advising Check Sheet

The 36-credit Fast Track is an accelerated degree program for the MS in Applied Data Science (MSADS), and students to complete as many as nine (9) graduate credits by the time their undergraduate degree is conferred. Fast Track also gives students the option to enter the workforce after graduation and complete the remainder of the program online and/or part-time.

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.

Common Core: 18 credits

The Common Core includes foundational knowledge in databases, data analysis and business analytics. Students will complete Common Core courses in an order which builds foundational knowledge and skills in preparation for more advanced work. **Although not required in the ADS program, fast-track students can also consider a Data Science Internship the summer after their senior year for three credits.**

Class #	Course Title	When to Enroll
IST 659	Data Admin Concepts & Database Management*	FA/SP- Sr. Year
IST 687	Introduction to Data Science *	MYM/SU- after Jr. year
IST 707	Data Analytics*	FA/SP- Sr. Year
IST 718	Big Data Analytics*	Spring/Masters year 1
MBC 638	Data Analysis & Decision Making*	Fall/Masters year 1
SCM 651	Business Analytics*	Fall/Masters year 1

DISCLAIMER: Undergraduate coursework for specific graduate equivalent classes in this program 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/credit. Students can also consider a Data Science Internship the summer after their senior year

Analytics Application Core: 3-6 credits

The Analytics Applications Core provides an opportunity for the student to choose one or two functional area specializations in accounting analytics, financial analytics, marketing analytics, and supply chain analytics, as a way to develop deeper exploration of particular application area(s) for data science techniques.

Class #	Course Title	Completed
ACC 652	Accounting Analytics*	
MAR 653	Marketing Analytics*	
FIN 654	Financial Analytics*	
SCM702	Principles of Management Science*	

Electives: 12-15 credits

The Electives include coursework in linear models, time series, scripting for data analysis, natural language processing, information visualization, data warehouse, text mining, information policy, information security and advanced database management. Students should select 4 or 5 courses.

Class #	Course Title	Completed
MAS 776	Linear Statistical Models	
MAS 777	Times Series Modeling and Analysis	
IST 615	Cloud Management*	
IST 618	Information Policy*	
IST 623	Introduction to Information Security*	
IST 652	Scripting for Data Analysis*	
IST 664	Natural Language Processing*	
IST 719	Information Visualization*	
IST 722	Data Warehouse*	
IST 736	Text Mining*	
IST 769	Advanced Big Data Management*	
IST 772	Quantitative Reasoning for Data Science*	
IST 974	Internship in Applied Data Science*	

Portfolio Requirement

In their final term, students are required to complete a Portfolio to provide an assessment of learning for their program. Students will choose assignments and projects worked on in courses during the course of study which demonstrate full competency of the program learning outcomes. Students will be given access to a course shell where they can find the portfolio milestone project details, prior to their final semester or term, and assigned a faculty member who will review the portfolios of graduates during the student's final term, provide feedback, and approve the portfolio for each student as a transcript milestone required for the degree.

**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.*