

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

Offered jointly by the School of Information Studies and the Martin J. Whitman School of Management, the 36-credit MS-ADS curriculum includes an 18-credit common core requirement, a 3-6-credit analytics application core requirement, 12-15 credits of electives, and a portfolio requirement. The MS-ADS program is typically completed within two years and gives students a strong data science and analytics foundation with a secondary focus of their choosing.

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.

Class #	Course Title	Completed
IST 659	Data Administration Concepts and Database Management*	
IST 687	Introduction to Data Science*	
IST 707	Data Analytics*	
IST 718	Big Data Analytics*	
MBC 638	Data Analysis & Decision Making*	
SCM 651	Business Analytics*	

Analytics Applications 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*	
SCM 702	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, and advanced database management.

Class #	Course Title	Completed
MAS 766	Linear Statistical Models I: Regression 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.

Guidelines for Credit Reductions and Substitutions

We do not offer credit reductions for work experience for this program. If students feel that their work experience or prior knowledge qualifies them for a waiver of a particular course requirement, they must complete a *Petition to Faculty* form with the request and include a resume. Students will still be required to take another course in its place to fulfill the 36-credit requirement. For more information, campus students can contact *iAdvising@syr.edu* and online students can contact their online student success advisor.

**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.*