

Master of Science: Applied Data Science 2021-2022 Advising Check Sheet

Offered jointly by the School of Information Studies and the Martin J. Whitman School of Management, the 34-credit MS-ADS curriculum includes an 18-credit primary core, a 6-credit secondary core requirement across three tracks, 9 credits of electives, and a 1-credit exit requirement. The MS-ADS program is typically completed within 1.5 to 2 years and gives students a strong data science and analytics foundation with a secondary focus of their choosing.

Primary Core: 18 credits

Class #	Course Title	Completed
IST 659	Data Administration Concepts and Database Management*	
IST 687	Introduction to Data Science*	
IST 707	Applied Machine Learning*	
IST 718	Big Data Analytics*	
IST 772	Quantitative Reasoning for Data Science*	
SCM 651	Business Analytics*	

Secondary Core: 6 credits

Students select 6 credits from one of the tracks below.

Data and Business Analytics

Class #	Course Title	Completed
ACC 652	Accounting Analytics*	
FIN 654	Financial Analytics*	
MAR 653	Marketing Analytics*	
MBC 638	Data Analysis and Decision Making*	
SCM 702	Principles of Management Science*	

Language Analytics

Class #	Course Title	Completed
IST 664	Natural Language Processing*	
IST 736	Text Mining*	

Data Pipelines and Platforms

Class #	Course Title	Completed
IST 652	Scripting for Data Analysis*	
IST 722	Data Warehouse*	
IST 769	Advanced Big Data Management*	

Electives: 9 Credits

Students can also choose any course from a different track for three credits, one additional course in the chosen track, or any course from the list below for 3 credits.

Class #	Course Title	Completed
IST 615	Cloud Management*	
IST 618	Information Policy*	
IST 623	Introduction to Information Security*	
IST 644	Managing Data Science Projects	
IST 719	Information Visualization*	

IST 974	Internship in Applied Data Science *	
MAS 766	Linear Statistical Models I: Regression Models	
MAS 777	Times Series Modeling and Analysis	

Exit Requirement: 1 Credit

In their final term or semester, 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 MSADS program learning outcomes.

Class #	Course Title	Completed
IST 782	Applied Data Science Portfolio*	

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 34-credit requirement. For more information, campus students can contact *iAdvising@syr.edu* and online students can contact *studentsupport@datascience.syr.edu*.

**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.*