

Master of Science: Applied Data Science 2017-2018 Advising Check Sheet

Developed 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 primary core requirement, a 3-6-credit analytics application core requirement, 12-15 credits of electives, and a portfolio milestone exit 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 565	Data Mining	
IST 659	Data Administration Concepts & Database Management	
IST 687	Introduction to Data Science	
IST 718	Advanced Information 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.

Note: A similar applied analytics course in a different application domain may be included if approved by both Whitman and the iSchool. Please email iAdvising@syr.edu to learn more about the process.

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 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 Data Administration Concepts & Database Management	

Exit Requirement: Portfolio Milestone

Students are required to complete a Portfolio Milestone 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 reflect abilities specified in the program learning outcomes for inclusion in their personal portfolio. A panel of faculty who teach the courses included in the program will review the portfolios of graduates during the student's final term. The panel will approve the portfolio for each student as a transcript milestone required for the degree.

- *A formal Petition is required for students who want to count a course towards the MS-ADS program that is not listed in the advising check sheet. Please email iAdvising@syr.edu to learn more about the Petition process.*
- *All courses are 3 credits unless specified otherwise*
- *Prospective Students: contact iGrad@syr.edu for any questions about the application process*
- *Current Students: contact iAdvising@syr.edu for any questions regarding courses and registration*