

## **Master of Science: Applied Data Science 2018-2019 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 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 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 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..