

DATA SCIENCE GENERALIST CONCENTRATION, MS

Master of Science in Applied Data Science M.S.: Data Science Generalist Concentration Requirements

Code	Title	Hours
ADS 521	Foundations of Data Science	3
ADS 522	Data Analytics I	3
ADS 523	Data Analytics II	3
ADS 525	Machine Learning I	3
ADS 526	Machine Learning II	3
ADS 534	Statistical Modeling	3
ADS 637	Data Exploration and Visualization	3
ADS 638	Database Systems	3
ADS 670	Case Analysis Capstone	3
Electives (p. 1)		9
Total Credits Required:		36

Electives

Code	Title	Hours
ADS 650	Time Series Analysis	3
ADS 652	Text Mining	3
ADS 654	Deep Learning	3
CBY 510	Foundations of Cybersecurity Management	3
CBY 515	Foundations of Data Protection	3
CIM 605	Decision Support Systems	3
INF 642	Project Management	3
INF 654	Organizational Knowledge Management	3
INF 658	Strategies of Information Management	3
MBA 651	High Performance Management Strategies	3
MBA 660	Investment Strategy and Risk Management	3
MHE 500	Foundations of Higher Education Administration	3
MHE 505	Organization and Decision-Making in Higher Education	3
MLN 500	Introduction to the Theory and Practice of Negotiation	3
MLN 505	Introduction to Models and Concepts in Leadership	3
NMP 500	Foundations of the Nonprofit Sector	3
NMP 655	Leadership & Personal Effectiveness	3

Academic Requirements

Note: This schedule reflects the recommended two-year sequence of courses to be taken in fulfillment of the the Master of Science in Applied Data Science with a concentration in Data Science Generalist. This sequence assumes a fall semester start. Students who begin in other sessions or those interested in a one-year sequence should consult with their faculty program advisor to plan their schedule.

Two-Year Sequence

Course	Title	Hours
Year One		
Fall Semester		
ADS 521	Foundations of Data Science (Session I)	3
ADS 522	Data Analytics I (Session II)	3
Hours		6
Spring Semester		
ADS 523	Data Analytics II (Session I)	3
ADS 534	Statistical Modeling (Session II)	3
Hours		6
Summer Semester		
ADS 525	Machine Learning I (Session I)	3
ADS 526	Machine Learning II (Session II)	3
Hours		6
Year Two		
Fall Semester		
ADS 638	Database Systems (Session I)	3
ADS 637	Data Exploration and Visualization (Session II)	3
Hours		6
Spring Semester		
Elective (Session I) ¹		3
Elective (Session II) ²		3
Hours		6
Summer Semester		
Elective (Session I)		3
ADS 670	Case Analysis Capstone (Session II)	3
Hours		6
Total Credits Required:		36

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ADS 650 Time Series Analysis or Other Elective.

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ADS 652 Text Mining or Other Elective.