

Certificate of Advanced Study: Data Science 2021- 2022 Advising Check Sheet

The Certificate of Advanced Study (CAS) in Data Science program requires 15 credit hours and prepares students to work with large amounts of data using information technologies as tools to gain knowledge and insight. The two Core Courses (6 credits) focus on handling data through its full lifecycle: architecting, acquiring, analyzing, and archiving data. The remaining elective courses (9 credits) enable specializations in data analytics, data storage and management or other areas such as data visualization

Required Courses: 6 credits

Course #	Course Title	Completed
IST 659	Data Administration Concepts and Database Management*	
IST 687	Introduction to Data Science*	

Elective Courses: 9 credits

Course #	Course Title	Completed
IST 652	Scripting for Data Analysis*	
IST 664	Natural Language Processing*	
IST 681	Metadata*	
IST 707	Applied Machine Learning*	
IST 718	Big Data Analytics*	
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*	
MAS 766	Linear Statistical Models I: Regression Models	
MAS 777	Time Series Modeling and Analysis	
MBC 638	Data Analysis and Decision Making*	
SCM 651	Business Analytics*	

**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.*