

Certificate of Advanced Study: Data Science 2020- 2021 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 | Data Analytics* | |
| 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.*