

Certificate of Advanced Study: Cloud Management **2021- 2022 Advising Check Sheet**

The 15-credit CAS in Cloud Management comprises three tracks: cloud solutions management, cloud data management, and cloud networking and security management. Students must complete one 3-credit primary core course and 12-credits from a list of electives. This CAS is designed to equip students with the skills necessary for careers focused on cloud management, administration and policy.

Primary Core: 3 credits

Course #	Course Title	Completed
IST 615	Cloud Management	

Secondary Focus Areas: 12 credits

Students choose the remainder of their classes from one focus area below. Each focus area has one or two additional required courses that need to be completed, as well as a list of electives from which students need to choose the remainder of their classes from. Pre-requisites will be enforced.

Cloud Solutions Management

Students must complete two required courses in this focus area: IST 643 and IST 714. The remaining classes come from the list of electives.

Required

Course #	Course Title	Completed
IST 643	Enterprise Services & Virtualized Systems	
IST 714	Cloud Architecture	

Electives

Select 2 courses from the list below

Course #	Course Title	Completed
IST 651	Scripting for Enterprise Data Systems	
IST 658	Advanced Enterprise Network Management	
IST 659	Data Administration Concepts and Database Management	
IST 687	Introduction to Data Science	

Cloud Data Management

Students must complete two required courses in this focus area: IST 643 and IST 722. The remaining classes come from the list of electives. IST 700: Selected Topics, must be a class related to the topic of deep learning and students are required to submit a petition prior to registration of the class, subject to program director approval.

Required

Course #	Course Title	Completed
IST 643	Enterprise Services and Virtualized Systems	
IST 722	Data Warehouse	

**this program is not available online*

Electives

Select 2 courses from the list below

Course #	Course Title	Completed
IST 651	Scripting for Enterprise Data Systems	
IST 659	Data Administration Concepts and Database Management	
IST 687	Introduction to Data Science	
IST 700	Selected Topics <i>*this selected topic class needs to relate to the topic of deep learning and students must submit a petition prior to registration, subject to program director approval.</i>	
IST 707	Applied Machine Learning	
IST 718	Big Data Analytics	
IST 769	Advanced Big Data Management	

Cloud Networking and Security Management

Students must complete one required course in this focus area: IST 725. The remaining classes come from the list of electives.

Required

Course #	Course Title	Completed
IST 725	Information Technology Security Architecture	

Electives

Select 3 courses from the list below

Course #	Course Title	Completed
IST 623	Introduction to Information Security	
IST 634	Security in Networked Environments	
IST 658	Advanced Enterprise Network Management	
IST 704	Applied Information Security	
IST 714	Cloud Architecture	
IST 726	Enterprise IT Architecture: Concepts and Practices	

**this program is not available online*