

Certificate of Advanced Study: Process Automation 2021- 2022 Advising Check Sheet

The 15-credit CAS in Process Automation comprises a 3-credit primary core and a 12-credit secondary core across two focus areas. The CAS offers a comprehensive set of advanced skills in Functional Process Automation and Intelligent Process Automation. It is designed to equip students with the skills necessary for advanced technology jobs and careers.

Primary Core: 3 credits

Course #	Course Title	Completed
IST 673	Technology and the Future of Work	

Secondary Focus Areas: 12 credits

Students choose the remainder of their classes from one focus area below. Each focus area has one required class for 3 credits, and a list of electives from which students need to choose an additional three classes, or 9 credits from. Prerequisites will be enforced.

Functional Automation

Students are required to complete one course in this focus area: IST675: Functional Process Automation. The remainder of the classes come from the list of electives.

Required

Course #	Course Title	Completed
IST 675	Functional Process Automation	

Electives

Course #	Course Title	Completed
IST 645	Managing Information Systems Projects	
IST 649	Human Interaction with Computers	
IST 651	Scripting for Enterprise Data Systems	
IST 654	Information Systems Analysis	
IST 659	Data Administration Concepts and Database Management	
IST 687	Introduction to Data Science	
MBC 635	Operations and Supply Chain Management	
SCM 721	Supply Chain Systems	
SCM 755	Lean Six Sigma	

Intelligent Automation

Students are required to complete one course in this focus area: IST783: Intelligent Process Automation. The remainder of the classes come from the list of electives.

Required

Course #	Course Title	Completed
IST 783	Intelligent Process Automation	

**this program is not available online*

Electives

Course #	Course Title	Completed
CIS 675	Design and Analysis of Algorithms	
CIS 667	Introduction to Artificial Intelligence	
CIS 731	Artificial Neural Networks	
IST 645	Managing Information Systems Projects	
IST 652	Scripting for Data Analysis	
IST 664	Natural Language Processing	
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 registering for the class, subject to program director approval.</i>	
IST 707	Applied Machine Learning	
IST 718	Big Data Analytics	
IST 769	Advanced Big Data Management	

**this program is not available online*