

COMPUTER SCIENCE (M.S.)

Concentrations

Software concentration courses

Courses in this group have the CSSO attribute.

Course	Title	Credits
CISC 5030	Internet and Web Programming	3
CISC 5350	Financial Programming	3
CISC 5380	Programming with Python	3
CISC 5410	Mobile Device Programming	3
CISC 5500	Data Analytics Tools and Scripting	3
CISC 5520	Programming Languages	3
CISC 5550	Cloud Computing	3
CISC 5835	Algorithms for Data Science	3
CISC 5850	The Social Network	3
CISC 5950	Big Data Programming	3
CISC 6100	Software Engineering	3
CISC 6300	Computational Finance	3
CISC 6352	Advanced Computational Finance	3
CISC 6375	Object Software Design	3
CISC 6400	Robotics and Animation	3
CISC 6795	Java Programming	3
CISC 6875	Parallel Computations	3

Artificial Intelligence concentration courses

Courses in this group have the CSAI attribute.

Course	Title	Credits
CISC 5109	Big Data Analytics	3
CISC 5700	Cognitive Computing	3
CISC 5800	Machine Learning	3
CISC 5900	Information Fusion	3
CISC 6400	Robotics and Animation	3
CISC 6525	Artificial Intelligence	3
CISC 6550	Systems Neuroscience	3

Cybersecurity concentration courses

Courses in this group have the CSCY attribute.

Course	Title	Credits
CISC 5009	Network Essentials	3
CISC 5650	Cybersecurity Essentials	3
CISC 5660	Data Science for Cybersecurity	3
CISC 5725	Network Administration	3
CISC 5728	Security of e-Systems and Networks	3
CISC 5750	Information Security and Ethics	3
CISC 6070	Red Teaming	3
CISC 6600	Secure Cyber Networks	3
CISC 6630	Wireless Security	3
CISC 6650	Forensic Computing	3

CISC 6655	Cloud Computing Security	3
CISC 6680	Intrusion Detection and Network Forensics	3
CISC 6800	Malware Analytics and Software Security	3
CISC 6920	Incident Response and Risk Management	3
CISC 7050	Penetration Testing	3

Data Analytics concentration courses

Courses in this group have the CSDA attribute.

Course	Title	Credits
CISC 5109	Big Data Analytics	3
CISC 5500	Data Analytics Tools and Scripting	3
CISC 5700	Cognitive Computing	3
CISC 5790	Data Mining	3
CISC 5800	Machine Learning	3
CISC 5835	Algorithms for Data Science	3
CISC 5850	The Social Network	3
CISC 5900	Information Fusion	3
CISC 5950	Big Data Programming	3
CISC 6550	Systems Neuroscience	3
CISC 6700	Medical Informatics	3

Networks and Systems concentration courses

Courses in this group have the CSNS attribute.

Course	Title	Credits
CISC 5009	Network Essentials	3
CISC 5030	Internet and Web Programming	3
CISC 5410	Mobile Device Programming	3
CISC 5550	Cloud Computing	3
CISC 5725	Network Administration	3
CISC 5728	Security of e-Systems and Networks	3
CISC 6500	Bioinformatics	3
CISC 6600	Secure Cyber Networks	3
CISC 6630	Wireless Security	3
CISC 6680	Intrusion Detection and Network Forensics	3
CISC 6725	Computer Networks	3
CISC 6735	Wireless Networks	3
CISC 6795	Java Programming	3