

Course (Department, Number, Title)				Semesters						Specialization Area
	<i>Cyber</i>	<i>DS</i>	<i>HPC</i>	Spring 2023	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025	
CSC 6400 Advanced Analysis of Algorithms				x		x		x		AI
CSC 6240 Mathematics and Theory of Machine Learning							x			
CSC 6220 Data Mining		SE				x				AI
CSC 6230 Machine Learning		SE		x				x		
CSC 6260 Advanced Topics in Artificial Intelligence		SE				x			x	AI
CSC 7210 Anomaly and Intrusion Detection Systems**		SE			x					
CSC 7240 Intelligent Information Systems**		SE					x			Security
CSC 6575 Internet Security	SE				x		x		x	
CSC 6580 Advanced Reverse Engineering	SE				x				x	Security
CSC 6585 Secure Software Development	SE						x			
CSC 6590 Application Security	SE			x		x		x		Security
CSC 6570 Cloud Security Fundamentals and Practice	SE			x		x		x		
CSC 6xxx Social Engineering	SE					x				Security
CSC 7575 Security Topics in Cyber Physical Systems**	SE			x				x		
CSC 7570 A.I. Assisted Cyber	SE				x		x		x	Security
CSC 6730 Advanced Networking			SE	x			x			
CSC 6740 Parallel and Distributed Algorithms			SE		x			x		Security
CSC 6780 Distributed Computing			SE			x			x	
CSC 7720 Distributed Operating Systems **			SE					x		Security
CSC 7750 Topics in High Performance Computing **			SE		x					
CSC 7560 Advanced Networking and Next Gen Internet Protocols **			SE			x				Security
CSC 6910 Graduate Seminar	R	R	R	x	x	x	x	x	x	

Num Course Offerings: 7 7 9 7 8 6

\*\* offered once every three years

R = Required for MS and Direct-to-PhD students

SE = Specialization Elective

- Theory
- AI
- Security
- HPC
- All (MS)