

Course (Department, Number, Title)				Semesters						Specialization Area
	<i>Cyber</i>	<i>DS</i>	<i>HPC</i>	Fall 2023	Spring 2024	Fall 2024	Spring 2025	Fall 2025	Spring 2026	
CSC 6240 Mathematics and Theory of Machine Learning						x				<div style="background-color: #008000; height: 15px; width: 100%;"></div> <div style="background-color: #ffff00; height: 15px; width: 100%;"></div> <div style="background-color: #ffa500; height: 15px; width: 100%;"></div> <div style="background-color: #ff0000; height: 15px; width: 100%;"></div> <div style="background-color: #008000; height: 15px; width: 100%;"></div>
CSC 6400 Advanced Analysis of Algorithms					x		x		x	
CSC 6220 Data Mining		SE			x				x	
CSC 6230 Machine Learning		SE					x			
CSC 6260 Advanced Topics in Artificial Intelligence		SE			x				x	
CSC 7210 Anomaly and Intrusion Detection Systems**		SE		x						
CSC 7240 Intelligent Information Systems**		SE				x				
CSC 6570 Cloud Security Fundamentals and Practice	SE				x		x		x	
CSC 6575 Internet Security	SE			x		x		x		
CSC 6580 Advanced Reverse Engineering	SE			x				x		
CSC 6585 Secure Software Development	SE					x				
CSC 6590 Application Security	SE				x		x		x	
CSC 6xxx Social Engineering	SE				x				x	
CSC 7570 A.I. Assisted Cyber	SE			x		x		x		
CSC 7575 Security Topics in Cyber Physical Systems**	SE						x			
CSC 6730 Advanced Networking			SE			x			x	
CSC 6740 Parallel and Distributed Algorithms			SE	x			x			
CSC 6780 Distributed Computing			SE		x			x		
CSC 7560 Advanced Networking and Next Gen Internet Protocols **			SE		x					
CSC 7720 Distributed Operating Systems **			SE				x			
CSC 7750 Topics in High Performance Computing **			SE							
CSC 6910 Graduate Seminar	R	R	R	x	x	x	x	x	x	

Num Course Offerings: 6 9 | 7 8 5 8

** offered once every three years

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

SE = Specialization Elective

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