Computer Science Electives

Fall Semester

Course No.	Name	Prerequisites
CS 2433	C/C++ Programming	CS 1113
CS 4173	Video Game Development	CS 2133 and CS 2433 and MATH 2144
CS 4243	Introduction to Computer Security – face-to-face	CS 3443 or ECEN 3213
CS/ECEN 4273	Software Engineering	CS 2133, CS 3653 and (CS 3443 or ECEN 3213)
CS/ECEN 4283	Computer Networks	CS 2133 and (CS 3443 or ECEN 3213), and UNIX knowledge
CS/MATH 4513	Numerical Mathematics: Analysis	MATH 2233 and 3013, knowledge of programming or consent of instructor
CS 4570	Network Security and Defense (CS 4383 Fall 2025)	CS 2133
CS 4783	Machine Learning	(CS 3353 or CS 4343) and MATH 3013

Spring Semester

Course No.	Name	Prerequisites
CS 2433	C/C++ Programming	CS 1113
CS 4153	Mobile Applications Development (need access to MAC)	CS 2133 or CS 2433
CS 4243	Intro to Computer Security - online	CS 3443 or ECEN 3213
CS 4433	Introduction to Database Systems	CS 2133
CS 4570	Network Attack Security (CS 4483 Spring 2026)	CS 3443, CS 4243, and CS 4283
CS 4523	Cloud Computing and Distributed Systems	CS 3443 and CS 3353
CS 4793	Artificial Intelligence	CS 3353
CS 4983	Senior Capstone Project	CS 3353 and CS 3363 and CS 3443

Fall and Spring

Course Number	Name	Prerequisites
CS 2351	Unix Programming	CS 1113 or EET 2303
CS 3570	Special Problems in Computer Science	Junior standing and consent of instructor.

Fall, Spring, and Summer

Course Number	Name	Prerequisites
CS 2433	C/C++ Programming	CS 1113
CS 3030	Industrial Practice in Computer Science	CS 3443 and MATH 2144 and permission from Department Head
CS 4243	Intro to Computer Security	CS 3443 or ECEN 3213
CS 4570	Special Topics in Computing	Honors Program participation, junior standing.