

Subject	Course Number	Course Title	Prerequisites courses designated with an * must be completed with a "C" or better	Co-requisites
CS	1301	Introduction to Computer Science	MATH 1508* or MATH 1411*	CS 1101
CS	1101	Introduction to Computer Science Lab	MATH 1508* or MATH 1411*	CS 1301
CS	2101*	Discrete Structures I	MATH 1508*	none
CS	2202*	Discrete Structures II	MATH 1411* AND CS 2101*	none
CS	2210*	Algorithmic Thinking in Problem Solving	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	2302	Data Structures	CS 2401* and (MATH 2300* or CS 2202*)	none
CS	2401	Elementary Data Structures and Algorithms	CS 1301* and CS 1101*	none
CS	3195	Junior Professional Orientation	(MATH 2300* or CS 2202*) AND CS 2401*	none
CS	3331	Advanced Object-Oriented Programming	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	3432	Computer Architecture I: Computer Organization and Design	(CS 2302*, EE 2369*, EE 2169* & MATH 2300)* or (CS 2401, EE 2369, EE 2169 & MATH 2300 all a B or better)	none
CS	4316	Computer Networks	CS 2302* and CS 3432*	none
CS	4317	Human-Computer Interaction	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4318	Wireless Networks	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4330	Mobile Application Development	CS 3331*	none
CS	4339	Secure Web-Based Systems	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4342	Database Management	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4351	Computer Security	CS 3432*	none
CS	4352	Compilers and Interpreters	CS 3350* or CS 3333*	none
CS	4361	Machine Learning	CS 2302*	none
CS	4362	Data Mining	CS 2302*	none
CS	4364	Topics in Data Science	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4365	Topics in Soft Computing	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4371	Computer Science Problems	Senior standing and department approval	none
CS	4374	Software Construction	CS 3331*	none
CS	4375	Theory of Operating Systems	CS 3432*	none
CS	4376	Comp Dcsn-Mkng & Risk Analysis	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4377	Cyber-Sec for Critical Op Tech	CS 3331* and departmental approval	none
CS	4379	Software Reverse Engineering	CS 3432*	none
CS	4381	Topics Software Engineering	CS 3331*	none
CS	4387	Software Integration and V&V	CS 3331* and departmental approval	none
AI	3311	Fairness and Safety in AI	CS 2302* or CS 2401 w/B or better	none
AI	3312	Data integration and processing	CS 2401*	none
AI	4310	Human and machine intelligence I	CS 3331*	none
AI	4311	Human and machine intelligence II	CS 3331*	none
AI	4319	Speech/Language Processing	CS 2302* and MATH 3323* and STAT 3320*	none
AI	4320	Artificial Intelligence	CS 2302*	none
AI	4361	Machine Learning	CS 2302*	none
AI	4362	Data Mining	CS 2302*	none
AI	4363	Computer Vision	CS 2302*	none
AI	4366	Deep Learning	CS 4361* or AI 4361*	none
AI	4373	AI Internship	CS 3331* and departmental approval	none
AI	4390	Special Topics in AI	Prerequisite(s) may be recommended based on topic	none

a --For CS majors with no previous programming experience; also for non CS majors Last Update 06-11-2025

b --For non CS majors. Last Update 3/17/2021