

Subject	Course Number	Course Title	Prerequisites courses designated with an * must be completed with a "C" or better	Co-requisites
CS	1110*	Intro to Problem Solving	none	none
CS	1120*	Computational Thinking	(CS 1301* and CS 1101*) OR CS 1401*	none
CS	1190*	Special Topics in Computing	MATH 1508*	none
CS	1191*	Special Topics in Computing	MATH 1508*	none
CS	1290*	Special Topics in Computing	MATH 1508*	none
CS	1291*	Special Topics in Computing	MATH 1508*	none
CS	1310 <sup>b</sup>	Introduction to Computer Programming	none	none
CS	1320 <sup>b</sup>	Computer Programming for Scientists and Engineers	MATH 1508* or MATH 1411*	none
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 2302*	none
CS	3320	Computer Architecture II: Advanced Comp Design and Implementation	CS 3432* and EE 2369*	Offered irregularly
CS	3331	Advanced Object-Oriented Programming	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	3350	Automata, Computability, and Formal Languages	(CS 2302* or CS 2402*) and MATH 2300*	none
CS	3360	Design and Implementation of Programming Languages	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	3370	Computer Graphics	(MATH 2300* or CS 2202*) AND CS 2302* AND MATH 3323*	none
CS	3432	Computer Architecture I: Computer Organization and Design	(CS 2302* or CS 2402*) & EE 2369* & EE 2169* & MATH 2300	none
CS	4173	Computer Science Internship	CS 3331* and departmental approval	none
CS	4175	Parallel Computing	CS 3331* AND CS 3432*	none
CS	4177	Software Vulnerabilities	CS 3432*	none
CS	4181	Undergraduate Seminar	none	none
CS	4273	Computer Science Internship	CS 3331* and departmental approval	none
CS	4310	Software Engineering: Requirements Engineering	CS 3331*	none
CS	4311	Software Engineering: Design and Implementation	CS 4310*	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	4320	Artificial Intelligence	(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	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4362	Data Mining	(MATH 2300* or CS 2202*) AND CS 2302*	none
CS	4363	Computer Vision	(MATH 2300* or CS 2202*) AND 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	none	none
CS	4373	Computer Science Internship	CS 3331* and departmental 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
CS	4390	Special Topics in Computer Science	none	none
CS	4392	Research Methods in Computer Science	none	none
CS	4393	Senior Project	none	none

a --For CS majors with no previous programming experience; also for non CS majors.

Last Update 3/17/2021

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