

CS Department 2-Year Cycle Course Scheduling Plan (Approved on 9/22/2022)

			Odd Number Years 2021, 2023, ...		Even Number Years 2022, 2024, ...				
Course Number	Course Name	Credit	Spring	Fall	Spring	Fall	Prerequisites	Major	Notes
CS 1300	Introduction to Visual Basic	3	1 day 1 night	1 day 1 night	1 day 1 night	1 day 1 night	None	Free Elective	Not restricted
CS 2010	Computer and Information Technology	3	4 day 1 night	4 day 1 night	4 day 1 night	4 day 1 night	None	CIT	Not restricted
CS 2100	Web Page & Site Design	3	1 day	1 night	1 day	1 night	CS 2010 with at least a D	Free Elective	Not restricted
CS 2120	Computer Graphics and Games	3	1 night	1 day	1 night	1 day	A knowledge of programming, preferably in C, C++, or Java	Free Elective	Not restricted
CS 2300	Computer Science I	4	2 day 1 night	2 day 1 night	2 day 1 night	2 day 1 night	MATH 1150 or MATH 1350	CS & CIT	Not restricted
CS 2350	Fundamentals of Computer Hardware	3	1 day	1 night	1 day	1 night	CS 2300 & MATH 1160 or MATH1350	CIT	Not restricted
CS 2352	Applied Operating Systems	3	1 day	1 night	1 day	1 night	CS 2350	CIT	Not restricted
CS 2400	Computer Science II	4	1 day	1 night	1 day	1 night	CS 2300 & MATH 1160 or MATH 1350	CS only	CIT majors with permission
CS 2421	Object-Oriented Programming in Java	4	1 night	1 day	1 night	1 day	CS 2300 & MATH 1160 or MATH 1350	CIT only	Not opened to CS majors
CS 2600	Discrete Structures	3	1 day	1 night	1 day	1 night	CS majors only, CS 2300 and MATH 1160 or MATH 1350	CS	Not opened to CIT majors
CS 2650	Discrete Structures for CIT	3	1 night	1 day	1 night	1 day	CIT majors only, CS 2300 and MATH 1160 or MATH 1350	CIT	Not opened to CS majors
CS 2800	Computer and Assembler Language	3	1 night	1 day	1 night	1 day	CS 2300 and MATH 1160 or MATH 1350	CS	
CS 3351	Computer Networks I	4	1 day	1 night	1 day	1 night	CS 2350	CIT	Not opened to CS majors
CS 3352	Computer Networks II	4	1 day	1 night	1 day	1 night	CS 2352 and CS 3351	CIT	
CS 3380	Fundamentals of Networking and Information Security	3	1 day	1 night	1 day	1 night	CS 2600 and CS 2800	CS	Not opened to CIT majors
CS 3401	System Administration	3	1 night	1 day	1 night	1 day	CS 2352	CIT	
CS 3410	Digital Logic & Computer Organization	3	1 night	1 day	1 night	1 day	CS 2600 and CS 2800	CS	
CS 3420	Data Structures	4	1 night	1 day	1 night	1 day	CS 2400 and CS 2600	CS	

CS 3450	Operating Systems	3	1 night		1 day		CS 2800 and CS 3420	CS	
CS 3500	Software Engineering	3	1 day		1 night		CS majors only and CS 3420	CS	Not opened to CIT majors
CS 3550	Data Management Concepts and Applications	3	1 night	1 day	1 night	1 day	CS 2010 and (CS 2650 or CS 2600)	CIT	
CS 3570	Fundamentals of Web-Based Information Technology	3	1 day	1 night	1 day	1 night	CS 2352 and (CS 2400 or CS 2420 or CS 2421)	CIT	
CS 3600	Parallel and Distributed Computing	3		1 day		1 night	CS 3420	CS	
CS 3660	Fundamentals of Information Assurance and Security	3	1 day	1 night	1 day	1 night	CIT majors only and CS 3351 and CS 3401	CIT	Not opened to CS majors
CS 3820	Programming Languages	3	1 day		1 night		CS 3420	CS	
CS 4035	Systems Analysis and Design	3	1 day		1 night		CIT majors only and CS 2400 or CS 2420 or CS 2421	CIT Elective	Not opened to CS majors
CS 4051	Internet Applications with Java	3		1 day		1 night	CS 2400 or CS 2420 or CS 2421	CS/CIT Elective	
CS 4060	Applied Cryptography	3		1 night		1 day	CS 3660 or CS 3380	CS/CIT Elective	
CS 4066	Penetration Testing and Ethical Hacking	3		1 day		1 night	CS 3660 or CS 3380	CS/CIT Elective	
CS 4070	Data Science and Analytics	3	1 night		1 day		CS 3550 or CS 4400	CS/CIT Elective	
CS 4080	Data Mining and Machine Learning	3		1 day		1 night	(CS 2400 or CS 2420 or CS 2421) and MATH 2300	CS/CIT Elective	
CS 4090	Parallel and Distributed Systems	3		1 night		1 day	CS 3352 or CS 3600	CS/CIT Elective	
CS 4100	Artificial Intelligence	3	1 day		1 night		CS 3420	CS Elective	
CS 4201	Database-Driven Web Applications	3	1 night		1 day		CS 2400 or CS 2420 or CS2421	CS/CIT Elective	
CS 4400	Database Management	3		1 day		1 night	CS 3420	CS Elective	Not opened to CIT majors
CS 4410	Computer Architecture	3	1 day		1 night		CS 3410 and CS 3450	CS Elective	
CS 4500	CIT Seminar	3	1 night	1 day	1 night	1 day	CIT major, senior-level standing, and CS 3660	CIT	Not opened to CS majors
CS 4610	Computer Graphics	3	1 day		1 night		CS 3420	CS Elective	
CS 4800	Computer Science Seminar	3	1 day	1 night	1 day	1 night	CS3420 and Computer Science Senior Standing	CS	Not opened to CIT majors

Notes: Unless otherwise specified, students must pass each prerequisite course with a grade of C- or better.