

COMPUTER SCIENCES MAJOR REQUIREMENTS: SAMPLE 4-YEAR PLANNING GUIDES

Plan starting with CS 200 and Math 221

	FALL TERM	Credits	SPRING TERM	Credits
Year 1	CS 200 – Programming I Math 221 – Calculus I	3 5	CS 300 – Programming II CS 252 – Computer Engineering Math 222 – Calculus II	3 2 4
Year 2	CS 400 – Programming III CS 240 – Discrete Math	3 3	CS 354 – Machine Organization Math beyond Calc II (Math 340 rec.) CS 368 (C++) – <i>optional course</i>	3 3-4 1
Year 3	CS Theory (CS 577 rec.) Math beyond Calc II (Stat 324 rec.)	3-4 3	CS Applications CS Elective	3-4 3-4
Year 4	CS Software/Hardware CS Elective	3-4 3-4	CS Software/Hardware	3-4

Plan starting with CS 200 and Pre-calculus*

	FALL TERM	Credits	SPRING TERM	Credits
Year 1	CS 200 – Programming I Pre-calculus* (Math 112, 113, 114, or 171)	3 3-5	CS 300 – Programming II CS 252 – Computer Engineering Math 217 or 221 – Calculus I	3 2 5
Year 2	CS 400 – Programming III Math 222 – Calculus II	3 4	CS 354 – Machine Organization CS 240 – Discrete Math CS 368 (C++) - <i>optional course</i>	3 3 1
Year 3	CS Software/Hardware Math beyond Calc II (Math 340 rec.)	3-4 3	CS Theory (CS 577 rec.) Math beyond Calc II (Stat 324 rec.)	3-4 3
Year 4	CS Applications CS Elective	3-4 3-4	CS Software/Hardware CS Elective	3-4 3-4

*Pre-calculus may be more than one course; please consult with your advisor. QR-A is the pre-req for CS 200. If students aren't QR-A satisfied, they cannot take CS 200 concurrently.

Plan starting with CS 300 and Math 221

	FALL TERM	Credits	SPRING TERM	Credits
Year 1	CS 300 – Programming II Math 221 – Calculus I	3 5	CS 400 – Programming III Math 222 – Calculus II CS 252 – Computer Engineering	3 4 2
Year 2	CS 354 – Machine Organization CS 240 – Discrete Math CS 368 (C++) – <i>optional course</i>	3 3 1	CS Software/Hardware Math beyond Calc II (Math 340 rec.)	3-4 3-4
Year 3	CS Theory (CS 577 rec.) Math beyond Calc II (Stat 324 rec.)	3-4 3	CS Applications CS Elective	3-4 3-4
Year 4	CS Software/Hardware CS Elective	3-4 3-4		

*The above plans do not include general degree requirements.
Students should work with their advisor/consult DARS to plan remaining coursework.*