

COMPUTER SCIENCE



Catalog Term: Fall 2020

120 total credits

Last updated: 05/2021

14 SOPHOMORE	
FALL	SPRING
COMM 111 (3) Public Speaking Grade C-or better	
MATH 321/CS 321 (3) Discrete Structures I Prereq: MATH 242 or equivalent Grade C or better	MATH 322 (3) Discrete Structures II Prereq: MATH 321 Grade C or better
PHYS 313 (4) Physics for Scientist I Cncprereq: MATH 243 Grade C or better	PHYS 314 (4) Physics for Scientist II Prereq: MATH 243 and PHYS 313 Grade C or better
CS 311 (4) Object-Oriented Programming Prereq: CS 211 Grade C- or better	PHYS 316 (1) University Physics Lab II Cncprereq: PHYS 314
	CS 238 (3) or ECE 238 Assembly Language Programming Prereq: CS 211 Grade C- or better

CS 194 (4) or ECE 194
Introduction to Digital Design

Prereq: MATH 111 or equivalent
Grade C- or better

CS 211 (4)
Intro to Programming

Prereq: MATH 111 or equivalent
Grade C_ or better

16 JUNIOR	
FALL	SPRING
IME 254 (3) Engineering Probability & Statistics I Prereq: MATH 243 or MATH 252 Grade C or better	PHIL 354 (3) Ethics and Computers Prereq: Junior standing or Departmental consent Note d
IME 255 (3) Engineering Economy Cncprereq: MATH 242 or 251 Grade C or better	MATH 511 (3) Linear Algebra Prereq: MATH 243 Grade C or better
General Education SB/FA (3) Note c	CS 394 (3) or ECE 394 Introduction to Computer Architecture Prereq: CS 194 and CS 211 Grades C- or better
CS 400 (4) Data Structures Prereq: CS 311 Grade C- or better	CS 510 (3)
CS 410 (3) Programming Paradigms Prereq: CS 311 Grade C- or better	

17 SENIOR	
FALL	SPRING
CS 464 (3) or CS664 Computer Networks Prereq: CS311 and IME 254 Grades C- or better	Technical Elective (3) Note a
CS 540 (3) Operating Systems Prereq: CS 238 and CS 311 Grades C- or better	CS 560 (3) Design and Analysis of Algorithms Prereq: CS 400, MATH 322 & IME 254 Grades C- or better
CS598 (2) or EE 585 Senior Design Project I Prereq: Senior standing, CS 480 or EE 492 Cncprereq: PHIL 354 or 385 Grades C- or better in each	CS599 (2) or EE 595 Senior Design Project II Note e Prereq: CS598 Grade C- or better
CS 665 (3) Introduction to Database Systems Prereq: CS 311 and Math 322 Grades C- or better	Technical Elective (3) Note a
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NOTES: (a) At least 15 of the 18 Technical Elective hours **must be** from the EECS Dept. Up to 2 credit hours of Co-op courses can be used as **non-departmental** technical electives. (b) For student who have taken FYS (c) One of the General Education courses listed must be from FA, the other from SB; both must be from an approved list of courses. (d) PHIL 354 fulfils HU requirement. (e) CS 599 can only be taken if student received a C- or better in CS 598 in exactly the previous long semester. All prerequisites for ECE/EE/CS courses must be passed with a C- or better.

Legend: General Education: FA = Fine Arts. SB = Social and Behavioral Sciences. HU = Humanities. MS = Mathematics and Natural Sciences.
Prereq = Prerequisite. Cncprereq = Concurrent prerequisite (pre- or co-requisite).