COMPUTER SCIENCE

Catalog Term: Fall 2020

120 total credits

Last updated: 5/2021

For students who

have not taken FYS

12 FRES	HMAN 15		
FALL	SPRING		
ENGL 101 (3) College English I Grade C- or better	ENGL 102 (3) College English II Prereq: ENGL 101 Grade C- or better		
MATH 242 (5) Calculus I	MATH 243 (5) Calculus II		
Prereq: See Course Catalog	Prereq: MATH 242 Grade C or better		
CS 194 (4) or ECE 194 Introduction to Digital Design Prereq: MATH 111 or equivalent Grade C- or better	PHIL 125 (3) Introductory Logic HU Note b		
	CS 211 (4) Intro to Programming		
	Prereq: MATH 111 or equivalent Grade c_ or better		

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

16 JUNIOR 15		17 SENIOR 17		
FALL	SPRING	FALL	SPRING	
IME 254 (3) Engineering Probability & Satistics I	PHIL 354 (3) Ethics and Computers OFFERED SPRING ONLY	CS 464 (3) or CS 664 Computer Networks Prereq: CS311 and IME 254	Technical Elective (3)	
Prereq: MATH 243 or MATH 252 Grade C or better	Prereq: Junior standing or Departmental consent Note d	Grades C- or better	Note a	
IME 255 (3) Engineering Economy	MATH 511 (3) Linear Algebra	CS 540 (3) Operating Systems	CS 560 (3) Design and Analysis of Algorithms	
Cncprereq: MATH 242 or 251 Grade C or better	Prereq: MATH 243 Grade C or better	Prereq: CS 238 and CS 311 Grades C- or better	Prereq: CS 400, MATH 322 & IME 254 Grades C- or better	
General Education SB/FA (3)	CS 394 (3) or ECE 394 Introduction to Computer Architecture	CS 598 (2) or EE 585 Senior Design Project I	CS 599 (2) or EE 595 Senior Design Project II Note e	
Note c	Prereq: CS 194 and CS 211 Grades C- or better	Prereq: Senior standing, CS 480 or EE 492 Cncprereq: PHIL 354 or 385 Grades C- or better in each	Prereq: CS 598 Grade C- or better	
CS 400 (4) Data Structures	CS 510 (3) Programming Language Concepts	CS 665 (3) Introduction to Database Systems	Technical Elective (3)	
Prereq: CS 311 Grade C- or better	Prereq: CS 311 and Math 322 Grades C- or better	Prereq: CS 311 and Math 322 Grades C- or better	Note a	
CS 410 (3) Progamming Paradigms	CS 480 (3) or CS 580 Introduction to Software Engineering	Technical Elective (3)	Technical Elective (3)	
Prereq: CS 311 Grade C- or better	Prereq: CS 311 Grade C- or better	Note a	Note a	
Engineering+ Requirement (2 of 3)	Engineering+ Requirement (3 of 3)	Technical Elective (3)	Technical Elective (3)	
		Note a	Note a	

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) PHIL 125 fulfils HU requirement. (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 EE/ECE/CS courses must be passed with a C- or better.