COMPUTER SCIENCE

Catalog Term: Fall 2021

120 total credits

Last updated: 12/2020

For students who

ARE required to take FYS

15 FRESHMAN 15	
FALL	SPRING
ENGL 101 (3) College English I	ENGL 102 (3) College English II
Grade C- or better	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
First Year Seminar in FA/HU/SB (3)	PHIL 125 (3) Introductory Logic
Note b	Note c
CS 194 (4) Introduction to Digital Design	CS 211 (4) Intro to Programming
Prereq: MATH 111 or equivalent Grade C- or better	Prereq: MATH 111 or equivalent Grade c_ or better

	IOR 15
FALL	SPRING
IME 254 (3) Engineering Probability & Satistics I	PHIL 354 (3) Ethics and Computers OFFERED SPRING ONLY
Prereq: MATH 243 or MATH 252	Prereq: Junior standing or
Grade C or better	Departmental consent Note d
IME 255 (3)	MATH 511 (3)
Engineering Economy	Linear Algebra
Cncprereq: MATH 242 or 251	Prereq: MATH 243
Grade C or better	Grade C or better
General Education	CS 394 (3)
SB/FA (3)	Introduction to Computer Architecture
Note c	Prereq: CS 194 and CS 211 Grades C- or better
CS 400 (4)	CS 510 (3)
Data Structures	Programming Language Concepts
Prereq: CS 311	Prereq: CS 311 and Math 322
Grade C- or better	Grades C- or better
CS 410 (3)	CS 580 (3)
Progamming Paradigms	Introduction to Software Engineering
Prereq: CS 311	Prereq: CS 311
Grade C- or better	Grade C- or better
Engineering+	Engineering+
Requirement (2 of 3)	Requirement (3 of 3)

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) Assembly Language Programming	
	Prereq: CS 211 Grade C- or better	
	Engineering+ Requirement (1 of 3)	

17 SEN	IOR 14
FALL	SPRING
CS 664 (3) Computer Networks	CS 656 (3) Introduction to Cybersecurity
Prereq: CS311 and IME 254 Grades C- or better	Prereq: CS664 Grades C- or better
CS 540 (3) Operating Systems	CS 560 (3) Design and Analysis of Algorithms
Prereq: CS 238 and CS 311 Grades C- or better	Prereq: CS 400, MATH 322 & IME 25 Grades C- or better
EE 585 (2) Senior Design Project I Prereq: Senior standing, CS 480 or	EE 595 (2) Senior Design Project II Note e
EE 492 Cncprereq: PHIL 354 or 385 Grades C- or better in each	Prereq: EE 585 Grade C- or better
CS 665 (3) Introduction to Database Systems	Technical Elective (3)
Prereq: CS 311 and Math 322 Grades C- or better	Note a
Technical Elective (3)	Technical Elective (3)
Note a	Note a
Technical Elective (3)	
Note a	

NOTES: (a) At least 9 of the 12 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) First Year Seminar **must not** be from MS. (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) EE 595 can only be taken if student received a C- or better in EE585 in exactly the previous long semester. All prerequisites for EECS courses must be passed with a C- or better.