COMPUTER SCIENCE



Catalog Term: Fall 2020 120 total credits Last updated: 05/2021

15 FRES	HMAN 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) Note b	PHIL 125 (3) Introductory Logic
All FYS courses are considered Departmental (SoC) Technical Electives	Note c
CS 194 (4) or ECE 194 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

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 JUN	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) or ECE 394
SB/FA (3)	Introduction to Computer Architecture
Note c	Prereq: CS 194 and CS 211 Grades C- or better
CS 400 (4) Data Structures	CS 510 (3) Programming Language Concepts
Prereq: CS 311	Prereq: CS 311 and Math 322
Grade C- or better	Grades C- or better
CS 410 (3)	CS 480 (3) or CS580
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)

17 SEN	IOR 14
FALL	SPRING
CS 464 (3) or CS664 Computer Networks	Technical Elective (3)
Prereq: CS311 and IME 254 Grades C- or better	Note a
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 254 Grades C- or better
CS598 (2) or EE 585 Senior Design Project I Prereq: Senior standing, CS 480 or	CS599 (2) or EE 595 Senior Design Project II Note e
EE 492 Cncprereq: PHIL 354 or 385 Grades C- or better in each	Prereq: CS598 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 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.