COMPUTER SCIENCE



For students who are NOT required to take FYS

Catalog Term: Fall 2020 120 total credits Last updated: 3/2021

12 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
CS 194 (4) 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)	General Education (3)	
Public Speaking	FA/SB	
Grade C-or better	Note c	
MATH 224 (CC 224 (2)	MATH 222 (2)	
MATH 321/CS 321 (3)	MATH 322 (3)	
Discrete Structures I	Discrete Structures II	
Prereg: MATH 242 or equivalent	Prereg: MATH 321	
Grade C or better	Grade C or better	
PHYS 313 (4)	PHYS 314 (4)	
Physics for Scientist I	Physics for Scientist II	
Channanaa, MATH 242	Dronge MATH 242 and DHVC 212	
Cncprereq: MATH 243 Grade C or better	Prereq: MATH 243 and PHYS 313 Grade C or better	
drade C or better	drade C or better	
CS 311 (4)	PHYS 316 (1)	
Object-Oriented Programming	University Physics Lab II	
'		
Prereq: CS 211	Cncprereq: PHYS 314	
Grade C- or better		
	CS 220 (2)	
	CS 238 (3) Assembly Language Programming	
	Assembly Language Programming	
	Prereg: CS 211	
	Grade C- or better	
	Grade & Or Detter	
	Engineering+	
	Requirement (1 of 3)	
	, , , , , , , , , , , , , , , , , , , ,	

16 JUN	IOR 15
FALL	SPRING
IME 254 (3)	PHIL 354 (3)
Engineering Probability & Satistics I	
Prereq: MATH 243 or MATH 252	OFFERED SPRING ONLY
Grade C or better	Prereq: Junior standing or Departmental consent Note d
W.F. 0.F.F. (0)	1 Hote u
IME 255 (3) Engineering Economy	MATH 511 (3) Linear Algebra
Engineering Economy	Lilleal Algebia
Cncprereq: MATH 242 or 251	Prereq: MATH 243
Grade C or better	Gradê C or better
General Education	CS 394 (3)
SB/FA (3)	Introduction to Computer Architecture
Note c	Prereg: CS 194 and CS 211
Note C	Grades C- or better
60 400 (4)	00.540.(0)
CS 400 (4) Data Structures	CS 510 (3) Programming Language Concepts
Data Structures	1 rogramming Language Concepts
Prereq: CS 311	Prereg: CS 311 and Math 322
Grade C- or better	Prereq: CS 311 and Math 322 Grades C- or better
CS 410 (3)	CS 480/CS580 (3)
Progamming Paradigms	Introduction to Software Engineering
Prereq: CS 311	Prereq: CS 311 Grade C- or better
Grade C- or better	
Engineering+ Requirement (2 of 3)	Engineering+ Requirement (3 of 3)
requirement (2 of 3)	Requirement (3 of 3)

17 SENIOR 17	
FALL	SPRING
CS 464 (3) 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
EE 585 (2) Senior Design Project I	EE 595 (2) Senior Design Project II Note e
Prereq: Senior standing, CS 480 or 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)	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) 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.