COMPUTER SCIENCE

Catalog Term: Fall 2017 | 128 credit hours

FRESHMAN

FALL (15 hrs)	SPRING (15 hrs)
ENGL 101 (3) College English I Grade of C or better	ENGL 102 (3) College English II Grade of C or better P: ENGL 101 with grade C or better
MATH 242 (5) Calculus I P: See Course Catalog	MATH 243 (5) Calculus II P: MATH 242 with C or better
PHIL 125 (3) Introductory Logic	General Education H/FA/S&BSc (3) Note b
CS 194 (4) Introduction to Digital Design P: MATH 111	CS 211 (4) Intro to Programming P: MATH 111 or MATH 112

SOPHOMORE

FALL (17 hrs)	SPRING (16 hrs)
COMM 111 (3) Public Speaking Grade of C or better	General Education H/FA/S&BSc (3) Note b
IME 254 (3) Engineering Probability & Statistics I P: MATH 243	IME 255 (3) Engineering Economy Coreq: MATH 242
MATH 321 (3)/CS 321 Discrete Structures I P: Math 242 with grade C or better, or	MATH 322 (3) Discrete Structures II P: MATH 321 with grade C- or better
PHYS 313 (4) Physics for Scientist I Coreq: MATH 243 Grade of C or better	PHYS 314 (4) Physics for Scientist II P: MATH 243 with grade C or better/ PHYS 313
CS 300 (4) Data Structures and Algorithms I P: CS 211 Grade of C- or better	CS 238 (3) Assembly Language Programming P: CS 211 Grade of C- or better
	Engineer of 2020 Requirement (1 of 3) See notes

JUNIOR

FALL (16 hrs)	SPRING (17 hrs)
PHIL 325 (3) Formal Logic	PHIL 354 (3) Ethics and Computers Offered Spring Only P: Junior standing/departmental consent
General Education H/FA/S&BSc (3) Note b	CHEM 211 (5) General Chemistry I Coreq: Math 111
General Education H/FA/S&BSc (3) Note b	CS 394 (3) Introduction to Computer Architecture Offered Spring Only P: CS 194 and CS211 Grades of C- or better
CS 411 (3) Object-Oriented Programming P: CS 300 Grade of C- or better	CS 410 (3) Progamming Paradigms Offered Spring Only P: CS 300 Grade of C- or better
Technical Elective (4) Note a	CS 580 (3) Introduction to Software Engineering Offered Spring Only P: CS 411 Grade of C- or better
Engineer of 2020 Requirement (2 of 3) See notes	Engineer of 2020 Requirement (3 of 3) See notes

SENIOR

FALL (17 hrs)	SPRING (15 hrs)
MATH 511 (3) Linear Algebra P: MATH 243 with grade C or better	CS 464 (3) Computer Networks Offered P: CS300/IME 254 Grades of C- or better
CS 510 (3) Programming Language Concepts Offered Fall Only P: CS 300/Math 322, grades of C- or better	CS 560 (3) Design and Analysis of Algorithms Offered Spring Only P: CS 300/ Math 322/IME 254 with grades of C- or better
CS 540 (3) Operating Systems P: CS 238/300 with Grades of C- or better	CS 665 (3) Introduction to Database Systems Offered Spring Only P: CS 300/Math 322 with grades of C- or better
Technical Elective (3) Note a	Technical Elective (4) Note a
Technical Elective (3) Note a	EE 595 (2) Electrical Design Project II P: EE 585 Grade of C- or better
EE 585 (2) Electrical Design Project I P: Senior standing, CS 411 or EE492 and PHIL 354 or 385	

Notes: Students admitted after Fall 2007 must fulfill Engineer 2020 requirements. Prerequisites for all CS courses must be passed with a grade of C- or better. At least 8 of the 14 hours must be from the EECS Dept. Up to 2 credit hours of Co-op courses can be used as non-dept technical electives. Humanities/Fine Arts/Social & Behavioral Science/Natural Science courses must be from an approved list which appears in the Schedule of Courses. PHIL 125 counts toward one Humanities credit and PHIL 354 counts toward Adv Issues & Perspective requirement.
P: Prerequisite

Last Updated: 04/2017