COMPUTER SCIENCE

Catalog Term: Fall 2015

FRESHMAN	
FALL	**SPRING**
ENGL 101 (3) College English I P: See Course Catalog	ENGL 102 (3) College English II 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 112 or MATH 123

SOPHOMORE	
FALL	**SPRING**
COMM 111 (3) Public Speaking	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 2.0 or better, or CS 210/CS211 Grade of C- or better	MATH 322 (3) Discrete Structures II P: MATH 321
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 2.0 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	**SPRING**
PHIL 325 (3) Formal Logic Offered every third semester	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
General Education H/FA/S&BSc (3) Note b	CS 394 (3) Introduction to Computer Architecture Offered Spring Only P: CS 194 and CS238 Grade of C- or better
CS 411 (3) Object-Oriented Programming Offered Fall Only 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	**SPRING**
MATH 511 (3) Linear Algebra Coreq: MATH 243 with grade 2.0 or better	CS 464 (3) Computer Networks Offered Spring Only P: CS300/IME 254 Grade of C- or better
CS 510 (3) Programming Language Concepts Offered Fall Only P: CS 300 Grade of C- or better Math 322	CS 560 (3) Design and Analysis of Algorithms Offered Spring Only P: CS 300 Grade of C- or better and Math 322/IME 254
CS 540 (3) Operating Systems P: CS 238/300 Grade of C- or better	CS 665 (3) Introduction to Database Systems Offered Spring Only P: CS 300 Grade of C- or better and Math 322
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: Departmental consent	

Notes: Students admitted after Fall 2007 must fulfill the Engineer 2020 requirements. Prerequisites for all CS courses must be passed with a grade of C- or better. At least 6 of the 14 hours must be from the EECS Department. Up to 2 credit hours of Co-op courses can be used as non-departmental 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 a Further Study credit.
P: Prerequisite