COMPUTER ENGINEERING

Catalog Term: Fall 2018

15 FRESHMAN 15	
FALL	**SPRING**
ENGL 101 (3) College English 1 Grade C- or better	ENGL 102 (3) College English II Prereq: ENGL101 Grade C- or better
MATH 242 (5) Calculus I Prereq: See Course Catalog	MATH 243 (5) Calculus II Prereq: MATH 242 Grade C or better
General Education (3) H/FA/S&BSc Note b	General Education (3) H/FA/S&BSc Note b
CS 194 (4) Introduction to Digital Design Grade C- or better or equivalent	CS 211 (4) Introduction to Programming Prereq: MATH 111 or equivalent

17 SOPHOMORE 16	
FALL	**SPRING**
COMM 111 (3) Public Speaking Grade C- or better	MATH 555 (3) Differential Equations I Prereq: MATH 243 Grade C or better or Departmental Consent
MATH 321/CS 321 (3) Discrete Structures I Prereq: MATH 242 or equivalent Grade C or better	PHYS 314 (4) Physics for Scientist II Prereq: MATH 243 and PHYS 313 Grade C or better
PHYS 313 (4) Physics for Scientist I Coreq: MATH 243 Grade C or better	EE 284 (3) Circuits II Prereq: EE 282 & MATH 243 C- or better Coreq: MATH 555
CS 238 (3) Assembly Language Programming Prereq: CS 211 Grade C- or better	EE 285 L (1) Programming w/MATLAB for EECS Prereq: CS 211 Coreq: EE 284
EE 282 (4) Circuits I Coreq: MATH 243	CS 311 (4) Object-Oriented Programming Prereq: CS 211 Grade C- or better
	PHYS 316 (1) University Physics Lab II Coreq: PHYS 314

15 JUNIOR 15	
FALL	**SPRING**
CS 338 (4) FPGA-Based System Design Prereq: CS 194 and CS 211 Grade C- or better	PHIL 354 (3) Ethics and Computers **OFFERED SPRING ONLY** Prereq: Junior standing or Departmental consent Note c
CS 400 (4) Data Structures Prereq: CS 311 Grade C- or better	IME 254 (3) Engineering Porbability & Statistics I Prereq: MATH 243 or MATH 252 Grade C or better
EE 492 (4) Electronic Circuits I Coreq: EE 284	CS 394 (3) Introduction to Computer Architechture **OFFERED SPRING ONLY** Prereq: CS 194 and CS 211 Grade C- or better
General Education H/FA/S&BSc (3) Note b	CS 540 (3) Operating Systems Prereq: CS 238 and CS 311 Grade C- or better
Engineer of 2020 Requirement (1 of 3)	MATH 511 (3) Linear Algebra Prereq: MATH 243 Grade C or better
	Engineer of 2020 Requirement (2 of 3)

16 SENIOR 15	
FALL	**SPRING**
General Education H/FA/S&BSc (3) Note b	General Education H/FA/S&BSc (3) Note b
ME 398 (3) Thermodynamics I Prereq: MATH 243 and PHYS 313 Grade C or better	IME 255 (3) Engineering Economy Coreq: MATH 242 or MATH 251
CS 594 (4) Microprocessor Based System Design **OFFERED FALL ONLY** Prereq: CS 238 and CS 394 Grade C- or better	CS 464 (3) Computer Networks **OFFERED SPRING ONLY** Prereq: CS 311 and IME 254 Grade C- or better
Technical Elective (4) Note a	Technical Elective (4) Note a
EE 585 (2) Senior Design Project I Prereq: Senior standing, CS 480 or EE 492 and PHIL 354 or 385 Grades C- or better in each	EE 595 (2) Senior Design Project II Prereq: EE 585 Grade C- or better
Engineer of 2020 Requirement (3 of 3)	

NOTES: (a) At least 6 of the 8 Technical Elective hours must be from the EECS Dept. Up to 2 credit hours of Co-op courses can be used as non-dept technical electives. (b) Humanities/Fine Arts/Social & Behavioral Science/Natural Science courses must be from an approved list which appears in the Schedule of Courses. Prereq = Prerequisite. Coreq = Corequisite. All prerequisites for EECS courses must be passed with a C- or better.