

# COMPUTER ENGINEERING



Catalog Term: Fall 2018

15 FRESHMAN	
FALL	SPRING
ENGL 101 (3) College English I  Grade C- or better	ENGL 102 (3) College English II  Prereq: ENGL 101 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 H/FA/S&BSc (3)  Note b	General Education H/FA/S&BSc (3)  Note b
CS 194 (4) Introduction to Digital Design  Prereq: MATH 111 or equivalent	CS 211 (4) Intro to Programming  Prereq: MATH 111 or equivalent

17 SOPHOMORE	
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 and MATH 243 Grades C- or better Coreq: MATH 555
CS 238 (3) Assembly Language Programing  Coreq: 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

16 JUNIOR	
FALL	SPRING
CS 338 (4) FPGA-Based System Design  Prereq: CS 194 and CS 211 Grades C- or better	PHIL 354 (3) Ethics and Computers <b>OFFERED SPRING ONLY</b>  Prereq: Junior standing or Departmental consent Note c
CS 400 (4) Data Structures  Prereq: CS 311 Grade C- or better	IME 254 (3) Engineering Probability & Statistics I  Prereq: MATH 243 or MATH 252 Grades C or better
EE 492 (4) Electronic Circuits I  Coreq: EE 284 and EE 285L	CS 394 (3) Introduction to Computer Architecture <b>OFFERED SPRING ONLY</b>  Prereq: CS 194 and CS 211 Grades C- or better
General Education H/FA/S&BSc (3)  Note b	CS 540 (3) Operating Systems  Prereq: CS 238 and CS 311 Grades 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)

17 SENIOR	
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 Grades C- or better	IME 255 (3) Engineering Economy  Coreq: MATH 242 or 251
CS 594 (4) Microprocessor Based System Design <b>OFFERED FALL ONLY</b>  Prereq: CS 238 and CS 394 Grades C- or better	CS 464 (3) Computer Networks <b>OFFERED SPRING ONLY</b>  Prereq: CS311 and IME 254 Grades 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 Coreq: 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. (c) PHIL 125 counts as an introductory humanities General Education requirement. While PHIL 125 is recommended, PHIL 105 is also accepted. PHIL 354 fulfils Adv Issues & Perspective requirement. Prereq = Prerequisite. Coreq = Corequisite. All prerequisites for EECS courses must be passed with a C- or better.