

# ELECTRICAL



Catalog Term: Fall 2018

15 FRESHMAN		16	
FALL		SPRING	
ENGL 101 (3) College English I  Grade of C- or better		ENGL 102 (3) College English II Grade of C- or better  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	
CS 194 (4) Introduction to Digital Design  Prereq: MATH 111 or equivalent		PHYS 313 (4) Physics for Scientist I  Coreq: MATH 243 Grade C or better	
General Education H/FA/S&BSc (3)  Note b		CS 211 (4) Introduction to Programming  Prereq: MATH 111 or equivalent	

17 SOPHOMORE		15	
FALL		SPRING	
COMM 111 (3) Public Speaking  Grade C- or better		General Education H/FA/S&BSc (3)  Note b	
MATH 344 (3) Calculus III  Prereq: Math 243 Grade C or better		MATH 555 (3) Differential Equations I  Prereq: MATH 243, Grade C or better or Departmental Consent	
PHYS 314 (4) Physics for Scientist II  Prereq: MATH 243 and PHYS 313 Grade C or better		CHEM 211 (5) General Chemistry I  Prereq: CHEM 101, 103 or 110 Coreq: MATH 111	
IME 255 (3) Engineering Economy  Coreq: MATH 242 or 251		EE 284 (3) Circuits II Prereq: EE 282 and MATH 243 Coreq: MATH 555 Grades C- or better	
EE 282 (4) Circuits I  Coreq: MATH 243		EE 285 L (1) Programming w/ MATLAB for EE/CE  Prereq: CS 211 Grade C- or better Coreq: EE 284	

16 JUNIOR		14	
FALL		SPRING	
General Education H/FA/S&BSc (3)  Note b		PHIL 385 (3) Engineering Ethics  Prereq: Junior or Senior standing	
EE 383 (3) Signals and Systems  Prereq: EE 284 and MATH 555 Grade C- or better		EE 493 (4) Electronic Circuits II or Technical Elec OFFERED SPRING ONLY  Prereq: EE 492 Grade C- or better Note c	
EE 463 (3) Applied Engineering Electromagnetics OFFERED FALL ONLY  Prereq: PHYS 314 & MATH 344 Grade C- or better		EE 488 (4) Electric Machines & Transformers OFFERED SPRING ONLY  Prereq: EE 282 Grade C- or better	
MATH 511 (3) Linear Algebra  Prereq: MATH 243 Grade C or better		EE 684 (3) Introductory Control System Concepts OFFERED SPRING ONLY  Prereq: EE 282 & MATH 555 or EE 383 Grades C- or better	
EE 492 (4) Electronic Circuits I  Coreq: EE 284		Engineer of 2020 Requirement (2 of 3)	
Engineer of 2020 Requirement (1 of 3)			

15 SENIOR		16	
FALL		SPRING	
General Education H/FA/S&BSc (3)  Note b		General Education H/FA/S&BSc (3)  Note b	
IME 254 (3) Engineering Probability & Statistics I  Prereq: MATH 243 or 252 Grade C or better		ME 398 (3) Thermodynamics I  Prereq: MATH 243 and PHYS 313 Grades of C or better	
EE 688 (4) Power Electronics or Technical Elec OFFERED FALL ONLY  Prereq: EE 383, 488 and 492 Grades C- or better. Note c		EE 586 (4) Introduction to Communication Sys OFFERED SPRING ONLY  Prereq: EE 383 and IME 254 Grades C- or better	
AE 223 (3) Statics  Prereq: PHYS 313 Coreq: MATH 243		Technical Elective (4)  Note a	
Senior Design Project I EE 585 (2) Prereq: Senior standing CS 480 or EE 492 & PHIL 354 or 385 Grades C- or better		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 Department. Up to 2 credit hours of Co-op courses can be used as non-departmental technical electives. (b) Humanities/Fine Arts/Social & Behavioral Science courses must be from an approved list which appears in the Schedule of Courses. (c) Students are required to take EE 493 or EE 688. If taking both, the second will count towards technical elective hours. Prereq = Prerequisite. Coreq = Corequisite. All prerequisites for EECS courses must be passed with a C- or better.