ELECTRICAL ENGINEERING



Last updated: 10/2020

Catalog Term: Fall 2020 Total hours: 124

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	MATH 243 (5) Calculus II
Prereq: See Course Catalog	Prereq: MATH 242 Grade C or better
CS 194 (4) Introduction to Digital Design	PHYS 313 (4) Physics for Scientist I
Prereq: MATH 111 or equivalent Grade C- or better	Coreq: MATH 243 Grade C or better
First Year Seminar in FA/HU/SB (3)	CS 211 (4) Introduction to Programming
Note b	Prereq: MATH 111 or equivalent Grade C- or better

17 SOPHOMORE 15		
FALL	SPRING	
COMM 111 (3)	General Education	
Public Speaking	FA/SB (3)	
Grade C- or better	Note c	
MATH 344 (3)	MATH 555 (3)	
Calculus III	Differential Equations I	
Prereq: Math 243	Prereq: MATH 243	
Grade C or better	Grade C or better	
PHYS 314 (4)	CHEM 211 (5)	
Physics for Scientist II	General Chemistry I	
Prereq: MATH 243 and PHYS 313	Prereq: CHEM 101, 103 or 110	
Grades C or better	Coreq: MATH 111, CHEM211L	
IME 255 (3)	EE 284 (3)	
Engineering Economy	Circuits II	
Coreq: MATH 242 or 251	Prereq: EE 282 and MATH 243 Coreq: MATH 555 Grades C- or better	
EE 282 (4)	EE 285 L (1)	
Circuits I	Programming w/ MATLAB for EE/CE	
Coreq: MATH 243	Prereq: CS 211 ; Grade C- or better Coreq: EE 284	

16	JUNI	OR 14
FALL		SPRING
General Educatio SB/FA (3)	n	PHIL 385 (3) Engineering Ethics
Note c		Prereq: Junior or Senior standing
EE 383 (3) Signals and Systems	5	EE 493 (4) Electronic Circuits II or Technical Elec OFFERED SPRING ONLY
Prereq: EE 284, EE 285L & M Grades C- or better		Prereq: EE 492 Grade C- or better Note e
EE 463 (3) Applied Engineering Electron OFFERED FALL ONL		EE 488 (4) Electric Machines & Transformers OFFERED SPRING ONLY
Prereq: PHYS 314 and MA Grade C- or better	TH 344	Prereq: EE 282 Grade C- or better
MATH 511 (3) Linear Algebra		EE 684 (3) Introductory Control System Concepts OFFERED SPRING ONLY
Prereq: MATH 243 Grade C or better		Prereq: EE 282 & MATH 555 or EE 383 Grades C- or better
EE 492 (4) Electronic Circuits	I	Engineering + Requirement (2 of 3)
Coreq: EE 284 and EE 2	285L	
Engineering + Requirement (1 of 3	3)	

15 SEN	IOR 16
FALL	SPRING
Technical Elective (3)	Technical Elective (3)
Note a	Note a
IME 254 (3) Engineering Probability & Statistics I	Technical Elective (4)
Prereq: MATH 243 or 252 Grade C or better	Note a
EE 688 (4)	EE 586 (4)
Power Electronics or Technical Elec OFFERED FALL ONLY	Introduction to Communication Sys OFFERED SPRING ONLY
Prereq: EE 383, 488 and 492 Grades C- or better Note e	Prereq: EE 383 and IME 254 Grades C- or better
AE 223 (3) Statics	ME 398 (3) Thermodynamics I
Prereq: PHYS 313 Coreq: MATH 243	Prereq: MATH 243 and PHYS 313 Grades of C or better
Senior Design Project I EE 585 (2)	EE 595 (2) Senior Design Project II
Prereq: Senior standing, CS 480 or EE 492 Coreq: PHIL 354 or 385	Prereq: EE 585
Grades C- or better	Grade C- or better
Engineering + Requirement (3 of 3)	

NOTES: (a) At least 12 of the 14 Technical Elective hours **must be** from the EECS Dept. Up to 2 credit hours of Co-op courses can be used as **non-departmental** technical electives. (b) First Year Seminar **must not** be from MS. (c) One of the General Education courses listed must be from FA, the other from SB; both must be from an approved list of courses. (d) PHIL 385 fulfils HU requirement. (e) Students are required to take EE 493 or EE 688. If taking both, the second will count towards tech. elective hours. All prerequisites for EECS courses must be passed with a **C**- or better.