ELECTRICAL ENGINEERING



Last updated: 02/2022

Catalog Term: Fall 2022

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
ECE 194 (4) Introduction to Digital Design	PHYS 313 (4) Physics for Scientist I
Prereq: MATH 111 or equivalent	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
ECE 115 (0) ECE Freshman Seminar (Recommended but not required)	

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

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

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