ELECTRICAL ENGINEERING



Last updated: 04/2024

Catalog Term: Fall 2024

15+ FRESI	HMAN 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
drade of G- of 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 (3) 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

OR 14+
SPRING
PHIL 385 (3) Engineering Ethics
Prereq: Junior or Senior standing
ECE 493 (4) Electronic Circuits II or Tech Elec OFFERED SPRING ONLY Prereq: ECE 492 Grade C- or better
ECE 488 (4) Electric Machines & Transformers OFFERED SPRING ONLY Prereq: ECE 282 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
Engineer + Requirement (2 of 3)

16+ SEN	IOR 16+
FALL	SPRING
Technical Elective (4)	Technical Elective (4)
Note a	Note a
IME 254 (3) Engineering Probability & Statistics I	Technical Elective (3)
Prereq: MATH 243 Grade C or better	Note a
ECE 688 (4)	ECE 586 (4)
Power Electronics or Tech Elec	Introduction to Communication Sys
OFFERED FALL ONLY	OFFERED SPRING ONLY
Prereq: ECE 383, 488 and 492	Prereq: ECE 383 and IME 254
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 and	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 9 of the 11 Technical Elective hours **must be** ECE. 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 ECE 493 or ECE 688. If taking both, the second will count towards tech. elective hours. All prerequisites for ECE courses must be passed with a **C**- or better.