Four-Year Electrical Engineering Sample Plan - Effective Fall 2024

FIRST YEAR

Fall Semester

Course	Title	Cr
CHEM135	Gen Chemistry for Engineers	3
ENEE140†	Intro to Progr Concepts	2
ENEE101*	Introduction to ECE	3
MATH140	Calculus I (AR/MA)	4
ENGL101	Academic Writing (AW)	3
Total Credits		15

Spring Semester

Course	Title	Cr
ENES100*	Introduction to Engr Design (SP)	3
ENEE150	Intermediate Programming Concepts	3
PHYS161	General Physics I (NS)	3
MATH141	Calculus II	4
Gen Ed	Oral Communication (OC)	3
Total Credits		16

SECOND YEAR

Fall Semester

Course	Title	Cr
ENEE290	Intro to Diff. Eq & Linear Algebra for Eng.	4
ENEE244	Digital Logic Design	3
MATH241	Calculus III	4
PHYS260/1	General Physics II (NL)	4
Total Credits		15

Spring Semester

Course	Title	Cr
ENEE222	Elements of Discrete Signal Analysis	4
ENEE205	Electric Circuits	4
PHYS270/1	General Physics III	4
ENEE245	Digital Circuits & Systems Lab	2
Gen Ed**	Hist & Social Sci (HS)/Diversity (UP)**	3
Total Credits		17

THIRD YEAR

Fall Semester

Course	Title	Cr
ENEE304	Intro to Micro and Nanoelectronics	3
ENEE323	Signals & Systems: Theory & Applications	4
ENEE350	Computer Organization	3
GenTech	Upper-level General Technical Elective	3
Gen Ed	Hist & Social Sci (HS)/Diversity (UP)**	3
Total Credits		16

Spring Semester

Course	Title	Cr
ENEE200	Engineering Ethics (HU/IS}	3
ENEE305	Intro to Micro and Nanoelectronics Lab	2
ENEE324	Engineering Probability	3
ENEE382	Electromagnetics	4
Gen Ed	Humanities (HU)/I-Series (IS)**	3
Total Credits		15

FOURTH YEAR

Fall Semester

Course	Title	Cr
ENEE4xx	Category A: ENEE Advanced Theory	3
ENEE4xx	Category B: Advanced Lab	2
ENEE4xx	Required Upper-level ENEE Elective	3
ENEE4xx	Required Upper-level ENEE Elective	3
Gen Ed**	Scholarship in Practice (SP - non-major)**	3
Total Credits		14

Spring Semester

Course	Title	Cr
ENEE4xx	Category C: Capstone Design Course	3
ENEE4xx	Required Upper-level ENEE Elective	3
ENEE4xx	Required Upper-level ENEE Elective	3
ENEE4xx	Required Upper-level ENEE Elective	2
ENGL39x	Professional Writing (PW)	3
Total Credits		14

TOTAL CREDITS   120-122

†While ENEE140 is not a major requirement, students are required to complete ENEE140 prior to taking ENEE150 unless they have AP credit for CMSC131 (5 on the JAVA A exam, 4 or 5 on the JAVA AB) or have satisfactorily passed the ENEE150 Placement Exam. Students who do not take ENEE140 can complete the program in 120 credits.

* ENEE101 and ENES100 cannot be taken in the same semester. Students may take these courses consecutively within their first year in the order of choice.

**All students must complete two Distributive Studies courses that are approved for I-series courses. The Understanding Plural Societies and Cultural Competence courses may also fulfill Distributive Studies categories.