

ELECTRICAL ENGINEERING SAMPLE PLAN - EFFECTIVE FALL 2021

**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)	4
ENGL101	Academic Writing (AW)	3
Total Credits		15

**Spring Semester**

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

**SECOND YEAR**

**Fall Semester**

Course	Title	Cr
ENEE222	Elements of Discrete Signal Analysis	4
ENEE244	Digital Logic Design	3
MATH241	Calculus III	4
PHYS260/1	General Physics II (NL)	4
ENEE200	Engineering Ethics (HU/IS)	3
Total Credits		18

**Spring Semester**

Course	Title	Cr
ENEE205	Electric Circuits	4
ENEE245	Digital Circuits & Systems Lab	2
MATH246	Differential Equations	3
PHYS270/1	General Physics III	4
Gen Ed	Humanities (HU)**	3
Total Credits		16

**THIRD YEAR**

**Fall Semester**

Course	Title	Cr
ENEE303	Analog & Digital Electronics	3
ENEE322	Signals & Sytems Theory	3
ENEE350	Computer Organization	3
ENEE380	Electromagnetic Theory	3
Gen Ed	Hist & Social Sci (HS)**	3
Total Credits		15

**Spring Semester**

Course	Title	Cr
ENEE307	Electric Circuits Design Lab	2
ENEE324	Engineering Probability	3
ENEE313	Introduction to Device Physics	3
ENEE381	Electromagnetic Wave Propagation	3
Gen Ed	Hist & Social Sci (HS)**	3
ENGL39(x)	Professional Writing (PW)***	3
Total Credits		17

**FOURTH YEAR**

**Fall Semester**

Course	Title	Cr
ENEE4xx	Category A: Advanced Theory	3
ENEE4xx	Category B: Advanced Lab	2
ENEE4xx	Required Upper-level ENEE Elective	3
Gen Tech	Upper-level General Technical Elective	3
MATH4xx	Upper-level Math Elective	3
Total Credits		14

**Spring Semester**

Course	Title	Cr
ENEE4xx	Category C: Capstone Design Course	3
ENEE4xx	Required Upper-level ENEE Elective	2
Gen Tech	Upper-level General Technical Elective	3
Gen Tech	Upper-level General Technical Elective	3
Gen Ed**	Scholarship in Practice (SP - non-major)**	3
Total Credits		14

**TOTAL DEGREE CREDITS**

**123-125**

†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.

\* 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.

\*\*\* Effective Fall 2021, students can choose from any FSPW (Professional Writing) course to fulfill this requirement.