

COMPUTER ENGINEERING SAMPLE PLAN - EFFECTIVE FALL 2024

FIRST YEAR

Fall Semester

Course	Title	Cr
CHEM135	Gen Chemistry for Engineers	3
CMSC131 †	Object Oriented Programming I	4
ENEE101*	Introduction to ECE	3
MATH140	Calculus I (AR/MA)	4
ENGL101	Academic Writing (AW)	3
Total Credits		17

Spring Semester

Course	Title	Cr
ENES100*	Introduction to Engr Design (SP)	3
CMSC132	Object Oriented Programming II	4
PHYS161	General Physics I (NS)	3
MATH141	Calculus II	4
Gen Ed	Oral Communication (OC)	3
Total Credits		17

SECOND YEAR

Fall Semester

Course	Title	Cr
ENEE244	Digital Logic Design	3
ENEE290	Intro to Diff Eq and Lin Alg for Engineers	4
PHYS260/1	General Physics II (NL)	4
CMSC250	Discrete Structures	4
Gen Ed	Humanities (HU)**	3
Total Credits		18

Spring Semester

Course	Title	Cr
ENEE222	Element of Discrete Signal Analysis	4
ENEE205	Electric Circuits	4
CMSC216	Introduction to Computer Systems	4
ENEE245	Digital Circuits & Systems Lab	2
Gen Ed**	Hist & Social Sci (HS)**	3
Total Credits		17

THIRD YEAR

Fall Semester

Course	Title	Cr
ENEE200	Engineering Ethics (HU/IS)	3
ENEE3XX	ENEE304 Intro to Micro & Nanoelectronics OR ENEE322 Signals & Systems Theory	3
ENEE350	Computer Organization	3
CMSC330	Organization of Programming Languages	3
CpE Tech El	Category A: Math/Science Elective	3
Total Credits		15

Spring Semester

Course	Title	Cr
Stat Req	ENEE324 Engr Prob or STAT400 Appl Prob I	3
ENEE446	Digital Computer Design	3
CMSC351	Algorithms	3
CpE Tech El	Category A: Math/Science Elective	3
Gen Ed**	Hist & Social Sci (HS)**	3
Total Credits		15

FOURTH YEAR

Fall Semester

Course	Title	Cr
CMSC4xx	Category B: Comp. Sci. Advanced Theory	3
ENEE4xx	Category C: ENEE Advanced Theory	3
ENEE4xx	Category C: ENEE Advanced Theory	3
CpE Tech El	Category F: General Technical Elective	3
Gen Ed**	Scholarship in Practice (SP - non-major)**	3
Total Credits		15

Spring Semester

Course	Title	Cr
ENEE4xx	Category D: Advanced Laboratory	2
CpE Tech El	Category E: Capstone Design	3
CMSC/ENEE	Operating Systems (CMSC412 or ENEE447)	4
CpE Tech El	Computer Engineering Elective	3
ENGL39(x)***	Professional Writing***	3
Total Credits		15

TOTAL DEGREE CREDITS 125 - 129

† Students are required to complete CMSC131 prior to taking CMSC132 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 Computer Science exemption 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.