

**REPRESENTATIVE COURSE SEQUENCE
COMPUTER ENGINEERING (CpE)**

Freshman Year

First Semester

CSE 1104 - Introduction to Engineering
CSE 1105 - Introduction to CSE
CHEM 1465 - Chemistry for Engineers
ENGL 1301 - Critical Thinking, Reading
and Writing I
MATH 1426 - Calculus I
HIST 1311 – History of the United States
Total Credit 16 Hours

Second Semester

CSE 1320 - Intermediate Programming
ENGL 1302 - Critical Thinking, Reading,
and Writing II
MATH 2425 - Calculus II
PHYS 1443 – General Technical Physics I
HIST 1312 - History of the United States
Total Credit 17 Hours

Sophomore Year

First Semester

CSE 1325 - Object-Oriented Programming
Assembly
In Java
CSE 2315 - Discrete Structures
PHYS 1444 – General Technical Physics II
MATH 2326 - Calculus III
POLS 2311 - Government of the United States
Total Credit 16 Hours

Second Semester

CSE 2312 - Computer Organization &
Language Programming
CSE 2320 - Algorithms and Data Structures
EE 2440 – Circuit Analysis with Lab
IE 3301 - Engineering Probability
POLS 2312 - State & Local Government
Total Credit 16 Hours

Junior Year

First Semester

CSE 2340 and 2140 – Introduction to Digital Logic
and Digital Logic Lab
Engineering
CSE 3315 - Theoretical Concepts in CSE
CSE 3320 - Operating Systems
Structures
IE 3312 - Engineering Economy
COMS 3302 - Professional & Technical
Communication
Total Credit 16 Hours

Second Semester

CSE 3302 - Programming Languages
CSE 3310 - Fundamentals of Software
CSE 3322 - Computer Architecture
CSE 3330 - Database Systems and File
CSE 3442 - Embedded Computer Systems I
Total Credit 16 Hours

Senior Year

First Semester

CSE 4316 - Computer System Design Project I
Project II
Technical Electives, 6 hours
Math 3319 - Differential Equations & Linear
Algebra
Social/Cultural Elective, 3 hours
Total Credit 15 Hours

Second Semester

CSE 4317 - Computer System Design
Technical Elective, 3 hours
Math/Science Elective, 3 hours
Fine Arts Elective, 3 hours
Literature Elective, 3 hours
Total Credit 15 Hours

TOTAL CREDIT HOURS = 127 hours, plus modern and classical languages as required.