## COMPUTER ENGINEERING 2015-16

First Semester
MATH 1131Q ${ }^{1}$ - Calculus I
CHEM 1127 - Gen. Chem. I
CSE 1010 - Intro. to Computing for Engr.
ENGL 1010 or 1011 - Academic Writing
ENGR 1000 - Orientation to Engineering

## First Semester

MATH 2110Q - Multivariable Calculus
PHYS $1502 Q^{1}$ - Engineering Physics II
CSE 2100 - Data Structures \& Algorithms
CSE 2300W - Logic Design

## First Semester

ECE 3101 - Signals and Systems
ECE 3201 - Electronic Devices \& Circuits

CSE 3666 - Intro. to Computer Architecture
MATH 2210Q - Linear Algebra
Social Sciences course ${ }^{2}$

## First Semester

ECE 4901 - E\&CE Design I
ECE 4099W - Independent Study
ECE 3221 - Digital Integrated Circuits
CSE 4300 - Operating Systems
Professional Requirement ${ }^{3}$
Design Laboratory ${ }^{4}$

## FRESHMAN YEAR

| Credits | Second Semester | Credits |
| :---: | :--- | :---: |
| 4 | MATH 1132Q - Calculus II | 4 |
| 4 | PHYS 1501Q ${ }^{1}$ - Engineering Physics I | 4 |
| 3 | CSE 1102 - Object Oriented Design | 3 |
| 4 | Arts and Humanities course | 3 |
| $\frac{1}{16}$ | ECE 1101 - Computer Tools | 1 |
|  | Elective | $\frac{2}{17}$ |


| SOPHOMORE YEAR |  |  |
| :--- | :--- | :---: |
| Credits | Second Semester | Credits |
| 4 | MATH 2410Q - Differential Equations | 3 |
| 4 | ECE 2001 - Electric Circuits | 4 |
| 3 | CSE 2500 - Intro to Discrete Systems | 3 |
| $\frac{4}{15}$ | PHIL 1104 - Philosophy and Social Ethics | 3 |
|  | Social Sciences course ${ }^{2}$ | $\underline{3}$ |
|  |  | 16 |

## JUNIOR YEAR

| Credits | Second Semester | Credits |
| :---: | :--- | :---: |
| 3 | ECE 3401 - Digital Systems Design | 3 |
| 4 | ECE 3411 - Microprocessor App. Lab or CSE | 3 |
|  | 4903 - Microprocessor Lab |  |
| 3 | CSE 2102 - Intro. to Software Engineering | 3 |
| 3 | STAT 3345Q - Probability Models Engineers | 3 |
| $\frac{3}{16}$ | Diversity and Multiculturalism course | $\underline{3}$ |
|  |  | $\frac{15}{2}$ |

## SENIOR YEAR

| Credits | Second Semester | Credits |
| :--- | :--- | :---: |
| 2 | ECE 4902 - E\&CE Design II | 3 |
| 1 | ECE 3421 - VLSI Design \& Simulation | 4 |
| 3 | Professional Requirement $^{3}$ | 3 |
| 3 | Professional Requirement $^{3}$ | 3 |
| 3 | Diversity and Multiculturalism course $^{2}$ | $\underline{3}$ |
| $\underline{3}$ |  | 16 |

$\frac{3}{15}$
${ }^{1}$ The three-semester sequence of PHYS 1201Q-1202Q followed by PHYS 1230 or 1530 may be taken instead to satisfy this requirement. However, only eight credits of PHYS 1201-1202-1230/1530 can be used toward the required 126 credits for the Engineering degree
${ }^{2}$ The courses from content areas one (Arts and Humanities) and two (Social Sciences) must be from four different departments. One course from either content area one (Arts and Humanities) or content area two (Social Sciences) may also be used to fulfill one of the requirements from content area four (Diversity and Multiculturalism). One course from content area four must be an international course.
${ }^{3}$ Choose three (3) from: ECE 3111, ECE 3431/CSE 3802, ECE 4111, ECE 4112, ECE 4121, ECE 4131, ECE 4243, CSE 3300, CSE 3504, and CSE 4302. At least one of the three must be ECE 4111, ECE 4112, or CSE 3504.
${ }^{4}$ Choose one (1) from: CSE 3350/ECE 4401, CSE 4901/ECE 4402, ECE 4132, ECE 4242, and ECE 4244.

