

## **COMPUTER ENGINEERING 2008-2009**

### **FRESHMAN YEAR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
MATH 1131Q <sup>1</sup> - Calculus I (115Q)	4	MATH 1132Q-Calculus II (116Q)	4
CHEM 1127Q - Gen. Chem. I (127Q)	4	PHYS 1501Q-Engineering Phys. I (151Q)	4
CSE 1100C - Intro. to Computing (123C)	2	CSE 1102-Object Oriented Design (133)	3
ENGL 1010 or 1011-Academic Writing (110/111)	4	Arts and Humanities course <sup>2</sup>	3
ENGR 1000-Orientation to Engr. (100)	<u>1</u>	ECE 1101-Computer Tools (101)	<u>1</u>
	15		15

### **SOPHOMORE YEAR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
MATH 2110Q-Multivariable Calc. (210Q)	4	MATH 2410Q-Differential Equations (211Q)	3
PHYS 1502Q-Engineering Phys II (152Q)	4	ECE 2001W- Electric Circuits (210W)	4
CSE 2100- Data Structures & Algor. (134)	3	CSE 2500-Intro to Discrete Systems (254)	3
CSE 2300W Logic Design (210W)	<u>4</u>	PHIL 1104 - Phil. and Social Ethics (104)	3
	15	Social Sciences course <sup>2</sup>	<u>3</u>
			16

### **JUNIOR YEAR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
ECE 3201- Electr. Devices & Circuits (212)	4	ECE 3221- Digital Integrated Circuits (215)	3
ECE 3101-Signals and Systems (202)	3	ECE 3401- Digital Systems Design (252)	3
CSE 3666-Intro. to Comp. Arch. (220)	3	CSE 2102-Intro. to Software Engr. (230)	3
MATH 2210Q - Linear Algebra (227Q)	3	STAT 3345Q- Prob. Models for Engineers (224Q)	3
Social Sciences course <sup>2</sup>	<u>3</u>	Diversity and Multiculturalism course <sup>2</sup>	3
	16	Elective	<u>1</u>
			16

### **SENIOR YEAR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
ECE 4901-Comp & Elec. Engr. Design I (290)	2	ECE 4902-Comp & Elec. Engr. Design II (291)	3
ECE 3411-Microprocessor App. Lab (266) or CSE 4903 - Microprocessor Lab (268)	3	ECE 3421-VLSI Design & Simulation (249)	4
CSE 4300-Operating Systems (258)	3	Professional Requirement <sup>3</sup>	3
Professional Requirement <sup>3</sup>	3	Professional Requirement <sup>3</sup>	3
Design Laboratory <sup>4</sup>	3	Diversity and Multiculturalism course <sup>2</sup>	<u>3</u>
Elective	<u>3</u>		16
	17		

<sup>1</sup> The three-semester sequence of MATH 1120Q-1121Q (112Q-113Q) followed by Math 1132Q (116Q) may be taken instead to satisfy this requirement. MATH 1120Q (112Q) cannot be used toward the required 126 credits for the Engineering degree

<sup>2</sup>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.

<sup>3</sup>Choose three (3) from: ECE 3111 (232), ECE 4121 (234), ECE 4131(247), ECE 4111(241), ECE 4112 (242), ECE 3431 (257)/CSE 3802 (257), CSE 3504 (221), and CSE 3300 (245).

<sup>4</sup>Choose one (1) from: ECE 4401 (280), CSE 4901 (261)/ECE 4402 (281), ECE 4242 (268), and ECE 4132 (292).