

COMPUTER ENGINEERING 2007-2008

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
MATH 115Q ¹ - Calculus I	4	MATH 116Q-Calculus II	4
CHEM 127Q-Gen. Chem. I	4	PHYS 151Q-Engineering Phys. I	4
CSE 123C-Intro. to Computing	2	CSE 133-Object Oriented Design	3
ENGL 110 or ENGL 111-Acad. Writing	4	Arts and Humanities course ²	3
ENGR 100-Orientation to Engr.	<u>1</u>	ECE 101-Computer Tools	<u>1</u>
	15		15

SOPHOMORE YEAR

First Semester	Credits	Second Semester	Credits
MATH 210Q-Multivariable Calculus	4	MATH 211Q-Differential Equations	3
PHYS 152Q-Engineering Phys II	4	ECE 210W- Electric Circuits	4
CSE 134- Data Structures & Algorithms	3	CSE 254-Intro to Discrete Systems	3
CSE 210W Logic Design	<u>4</u>	PHIL 104 - Phil. and Social Ethics	3
	15	Social Sciences course ²	<u>3</u>
			16

JUNIOR YEAR

First Semester	Credits	Second Semester	Credits
ECE 212- Electronic Devices and Circuits	4	ECE 215- Digital Integrated Circuits	3
ECE 202-Signals and Systems	3	ECE 252- Digital Systems Design	3
CSE 220-Intro. to Comp. Arch.	3	CSE 230-Intro. to Software Engr.	3
MATH 227Q-Linear Algebra	3	STAT 224Q- Prob. Models for Engineers	3
Social Sciences course ²	<u>3</u>	Diversity and Multiculturalism course ²	3
	16	Elective	<u>1</u>
			16

SENIOR YEAR

First Semester	Credits	Second Semester	Credits
ECE 290-Comp. & Elec. Engr. Design I	2	ECE 291-Comp and Elec. Engr. Design II	3
ECE 266-Microprocessor Applications Lab or CSE 268-Microprocessor Laboratory	3	ECE 249-VLSI Design & Simulation	4
CSE 258-Operating Systems	3	Professional Requirement ³	3
Professional Requirement ³	3	Professional Requiremen ³	3
Design Laboratory ⁴	3	Diversity and Multiculturalism course ²	<u>3</u>
Elective	<u>3</u>		16
	17		

¹ The three-semester sequence of MATH 112Q-113Q followed by Math 116Q may be taken instead to satisfy this requirement. MATH 112Q can not be used toward the required 126 credits for the Engineering degree

²The 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.

³Choose three (3) from: ECE 232, ECE 234, ECE 247, ECE 241, ECE 242, ECE/CSE 257, CSE 221, and CSE 245.

⁴Choose one (1) from: ECE 280, CSE 261/ECE 281, ECE 268, and ECE 292.