

Computer Science & Engineering
Bachelor of Science in Engineering Program
Catalog Year 2014-2015

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
CHEM 1127Q or 1147Q-Gen. Chem. I or Honors Chem I	4	PHYS 1501Q-Engineering Phys. I	4
MATH 1131Q- Calculus I	4	MATH 11132Q-Calculus II	4
ENGL 1010 or ENGL 1011-Acad. Writing	4	CSE 1102-Object Oriented Design	3
CSE 1729 - Intro to Principles of Programming or	3	Area 2 (Social Science)	3
CSE 1010 - Intro Computing for Engineers		Area 1 (Arts and Humanities)	<u>3</u>
ENGR 1000-Orientation to Engineering	<u>1</u>		
	16		17

SOPHOMORE YEAR

First Semester	Credits	Second Semester	Credits
PHYS 1502Q-Engineering Phys II	4	MATH 2410Q-Differential Equations	3
MATH 2110Q-Multivariable Calculus	4	CSE 2500 -Intro to Discrete Systems	3
CSE 2100 - Data Structures & Intro to Algorithms	3	ECE 2001W - Electric Circuits	4
CSE 2300W - Logic Design	<u>4</u>	PHIL 1104 (Area 1) - Phil. and Social Ethics	3
	15	Area 2 (Social Science)	<u>3</u>
			16

JUNIOR YEAR

First Semester	Credits	Second Semester	Credits
CSE 2102-Intro. to Software Engr.	3	CSE 4302 - Advanced Computer Architecture	3
CSE 3666- Intro. to Comp. Arch.	3	CSE 3504- Prob. Perf. Analy. of Computer Sys.	3
CSE 3500- Algorithms and Complexity	3	CSE 3000-Contemporary Issues in CSE or	1 or 3
Prob. and Stat Course ¹	3	CSE 3002-Social, Ethical and Prof. Issues in CSE	
Area 4 (Diversity and Multiculturalism)	<u>3</u>	ECE 3101- Signals and Systems	3
	15	Math 2210Q-Linear Algebra	3
		Elective	<u>3</u>
			16 or 18

SENIOR YEAR

First Semester	Credits	Second Semester	Credits
CSE 4939W-CS & E Design Project I	3	CSE 4940 ² -CS & E Design Project II	3
CSE 3502-Theory of Computation	3	CSE 4100 - Prog. Language Translation or	3
CSE 4300-Operating Systems	3	CSE 4102 - Programming Languages	3
Prof. Req. (PR) ²	3	Prof. Req. (PR) ³	3
Prof. Req. (PR) ³	<u>3</u>	Area 4 (Diversity and Multiculturalism)	3
	15	Elective ³	<u>2 or 4</u>
			14 or 16

- 1 This course must be chosen from the list of MATH 3160Q- Probability, STAT 3025Q Statistical Methods I, STAT 3345Q- Probability Models for Engineers or STAT 3375Q Introduction to Mathematical Statistics.
- 2 Professional Requirement courses must be chosen so that there is a minimum of 43 CSE credits.
- 3 The minimum number of credits for this degree is 126. Your choice between CSE 3000 or 3002 will determine the amount of elective credit needed.