

**Computer Science & Engineering**  
**Bachelor of Science in Engineering Program**  
**Catalog Year 2015-2016**

**FRESHMAN YEAR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
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	3	Area 1 (Arts and Humanities)	<u>3</u>
ENGR 1000-Orientation to Engineering	<u>1</u>		17
	16		

**SOPHOMORE YEAR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
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 2001 – 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**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
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	1
Prob. and Stat.Course <sup>1</sup>	3	Prof. Req. (PR) <sup>2</sup>	3
Area 4 (Diversity and Multiculturalism)	<u>3</u>	Math 2210Q-Linear Algebra	3
	15	Elective	<u>3</u>
			16

**SENIOR YEAR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
CSE 4939W-CS & E Design Project I	3	CSE 4940 <sup>2</sup> -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) <sup>2</sup>	3	Prof. Req. (PR) <sup>2</sup>	3
Elective	<u>4</u>	Area 4 (Diversity and Multiculturalism)	3
	16	Elective	<u>3</u>
			15

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.