

Computer Science Bachelor of Science Program
Catalog year 2014-2015

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Lab Science ¹	4	Lab Science ¹	4
MATH 1131Q – Calculus I	4	Math 1132Q – Calculus II	4
CSE 1729 – Intro to Principles of Programming or CSE 1010 – Intro Computing for Engineers	3	CSE 1102 – Object Oriented Design	3
ENGR 1000 – Orientation to Engineering	1	ENGL 1010 or 1011 – Seminar in Writing	4
Area 2 (Social Sciences)	<u>3</u>		<u>15</u>
	15		

SOPHOMORE YEAR

First Semester	Credits	Second Semester	Credits
Lab Science ¹	4	CSE 2304 – Computer Architecture	3
CSE 2500 – Intro to Discrete Systems	3	CSE 3500 – Algorithms and Complexity	3
CSE 2100 – Data Structures and Intro to Algorithms	3	CSE 2102 – Intro to Software Engineering	3
MATH 2110Q – Multivariable Calculus or MATH 2410Q – Elem. Differential Equations	4 or 3	Area 2 (Social Science)	3
Area 1 (Arts and Humanities)	<u>3</u>	PHIL 1104 (Area 1) – Phil. and Soc Ethics	<u>3</u>
	17 or 16		15

JUNIOR YEAR

First Semester	Credits	Second Semester	Credits
CSE 4300 – Operating Systems	3	CSE 3502 – Theory of Computation	3
CSE Professional Requirement ²	3	CSE Professional Requirement ³	3
STAT 3025Q – Stat. Methods	3	Related Area Course II	3
Related Area Course ³ I	3	CSE 3000 – Contemporary Issues in CSE or CSE 3002 – Social, Ethical and Prof. Issues in CSE	1 or 3
MATH 2210Q – Linear Algebra	<u>3</u>	Area 4 Course (Diversity and Multiculturalism)	<u>3</u>
	15		13 or 15

SENIOR YEAR

First Semester	Credits	Second Semester	Credits
CSE 4939W – CSE Design Project I	3	CSE 4940 – CSE Design Project II	3
CSE 4102 – Programming Languages or CSE 4100 – Programming Language Translation	3	CSE Professional Requirement ³	3
Related Area Course III	3	Free Elective	3
Area 4 (Diversity and Multiculturalism) or Free Elective	3	Free Elective	3
Free Elective	<u>3</u>	Free Elective ⁴	<u>1 to 4</u>
	15		13 to 16

Additionally the program must include one W course other than CSE 4939W, which may be used to satisfy other requirements or Free Electives.

¹ A two-course sequence must be selected from one of the following sequences. CHEM 1127Q, 1128Q; CHEM 1147Q, 1148Q; CHEM 1137Q, 1138Q; PHYS 1401Q, 1402Q; PHYS 1601Q, 1602Q; PHYS 1501Q, 1502Q. An additional course must be selected from the department not selected for the sequence or from BIOL 1107, BIOL 1108, BIOL 1110, or GEOL 1050.

² The CS Professional Requirement Courses must be selected from the following courses: CSE 3300, CSE 3800, CSE 3802, CSE 4500, CSE 4701, CSE 4703, CSE 4705, CSE 4707, CSE 4709, any CSE graduate course, or CSE 4095's with prior approval.

³ The CSci degree requires at least 9 credits at the 2000 or higher level that relate to each other, e.g. in the same department. These may not be courses that fulfill other CSci degree requirements.

⁴ Sufficient to make 120 credits, with at least 45 credits in CSE courses.