

Degree: Computer Science, B.S.				
Requirement Area	Course	Course Title	Prerequisites	Units
<b>First Semester</b>				
E	GS 101A	Foundations of Success I		1
A1	COMM 100	Communication		3
B2		Life Science		3
B4	MATH 130	Calculus I	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH 125 (either course with grade C- or better).	4
D1		Social Science		3
Elective				1
			<b>Total:</b>	15
<b>Second Semester</b>				
E	GS 101B	Foundations of Success II		1
A2		Written Communication		3
C1		Arts		3
LD Major	CS 101	Computer Science I	Mathematics/QR Placement Category I or II, or successful completion of GE area B4.	4
LD Major	MATH 131	Calculus II	MATH 130 with grade C- or better.	3
Elective				1
			<b>Total:</b>	15
<b>Third Semester</b>				
E		Lifelong Learning and Self-Development		1
B1/B3	PHYS 135	Physics for Engineers I		4
LD Major	CS 211	Discrete Structures	MATH 130 with grade C- or better.	3
LD Major	CS 201	Computer Science II	CS 101 with grade C- or better.	4
A3	PHIL 100	Workshop in Critical Thinking		3
			<b>Total:</b>	15
<b>Fourth Semester</b>				
LD Major/D2	CS 230	Computing and Social Responsibility		3
Writing II/Second Code 1	ENGL 200 or PHYS 230	Writing II		3
		U.S. Code		3
LD Major	CS 221	Assembly Language and Computer Architecture	CS 100 or CS 101, both with grade C- or better.	3
LD Major	MATH 225	Numerical Algorithms and Linear Algebra	CS 101 and MATH 130.	3
			<b>Total:</b>	15
<b>Fifth Semester</b>				
B6/Overlay		UD Science Inquiry and Quantitative Reasoning		3
D3		Social Science		3
UD Major	STAT 316	Statistics for Science and Engineering	MATH 131	3
UD Major	CS 301	Data Structures	CS 201 and CS 211	3
UD Major	CS 321	Computer Architecture	CS 211 and CS 221, both with grade C- or better.	3
			<b>Total:</b>	15
<b>Sixth Semester</b>				
C2		Humanities		3
Code 2		U.S. Code		3
UD Major	CS 311	Programming Language Concepts	CS 201 and CS 221.	3
UD Major	CS 441	Computer Networks	CS 301	3
UD Major	CS 413	Analysis of Algorithms	CS/MATH 211 and CS 301	3
			<b>Total:</b>	15
<b>Seventh Semester</b>				
D4/Overlay		UD Social Science		3
UD Major	CS 401	Software Engineering	CS 301 with grade C- or better.	3
UD Major	CS 421	Operating Systems	CS 301 with grade C- or better.	3
UD Major	CS 411	Automata and Complexity	CS 211 and MATH 225, both with grade C- or better.	3
UD Major	CS Breadth			3
			<b>Total:</b>	15
<b>Eighth Semester</b>				
Add'l C1 or C2*		Arts/Humanities		3
C4/Overlay		UD Arts/Humanities		3
UD Major	CS Breadth			3
UD Major	CS Elective			3
UD Major	CS Elective			3
			<b>Total:</b>	15
<b>Total Units:</b>				120

General Education & University Requirements - Suggested Courses	
Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better)	
<input type="checkbox"/> A1. COMM 100 or 104, MLL 111	
<input type="checkbox"/> A2. ENGL 101, 102, or 104	
<input type="checkbox"/> A3. PHIL 100	
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning	
<input type="checkbox"/> B1. Physical Science	
<input type="checkbox"/> B2. Life Science	
<input type="checkbox"/> B3. Laboratory Activity	
<input type="checkbox"/> B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)	
Area C (9 units): Arts & Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS)	
<input type="checkbox"/> C1. Arts	
<input type="checkbox"/> C2. Humanities	
<input type="checkbox"/> *Additional Lower-division Area C Course in Arts (C1) or Humanities (C2)	
Area D (9 units) : Social Sciences - Minimum of three different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)	
<input type="checkbox"/> D1.	
<input type="checkbox"/> D2.	
<input type="checkbox"/> D3.	
Area E (3 units) : Lifelong Learning and Self-Development	
<input type="checkbox"/> E.	
Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.	
<input type="checkbox"/> Writing II.	
University Writing Skills Requirement	
<input type="checkbox"/> UWSR. Writing Skills Test (WST) or First and/or Second Tier Courses	
U.S. Code (American Institutions Requirement) - Two courses (6 units) covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).	
<input type="checkbox"/> Code 1.	
<input type="checkbox"/> Code 2.	
Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)	
<input type="checkbox"/> B6. Upper-division Science Inquiry and Quantitative Reasoning	
<input type="checkbox"/> C4. Upper-division Arts OR Humanities	
<input type="checkbox"/> D4. Upper-division Social Sciences	
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major	
<input type="checkbox"/> Diversity (Div)	
<input type="checkbox"/> Social Justice (SJ)	
<input type="checkbox"/> Sustainability (S)	