

Degree: Computer Science, B.S.				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester				
E	GS 101A	Foundations of Success I		1
A1	COMM 100	Communication		3
B2				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				3
Elective				1
			Total:	15
Second Semester				
E	GS 101B	Foundations of Success II		1
A2	ENGL 102			3
C1				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
			Total:	15
Third Semester				
E				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
			Total:	15
Fourth Semester				
LD Major/D2	CS 230	Computing and Social Responsibility		3
Writing II/Second Code 1	ENGL 200 or PHYS 230			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
			Total:	15
Fifth Semester				
B6/Overlay				3
D3				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
			Total:	15
Sixth Semester				
C2				3
Code 2				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
			Total:	15
Seventh Semester				
D4/Overlay				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
			Total:	15
Eighth Semester				
Add'l C1 or C2*				3
C4/Overlay				3
UD Major	CS Breadth			3
UD Major	CS Elective			3
UD Major	CS Elective			3
			Total:	15
Total Units:				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	
<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"/> Courses	
covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Code 1.	
<input type="checkbox"/> Code 1.	
<input type="checkbox"/> Code 2.	
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 CE or major.	
<input type="checkbox"/> Diversity (Div)	
<input type="checkbox"/> Social Justice (SJ)	
<input type="checkbox"/> Sustainability (S)	