

## CSUEB Degree Roadmap

### Bachelor of Science in Computer Science

TOTAL UNITS TO DEGREE:			120
	Course	Course Title	Units
<b>First Semester (suggested timeline for GE; adjust as needed for major)</b>			
E	GS 101	Freshman Studies	1
A1	COMM 100	Public Speaking	3
B2	Life Science		3
B4	MATH 130	Calculus I	4
D1	Social Science		3
TOTAL:			14

<b>Second Semester (suggested timeline for GE; adjust as needed for major)</b>			
E	GS 102	Freshman Studies	1
A2	ENGL 101	College Writing: Stretch II	3
A3	PHIL 100	Workshop in Critical Thinking	3
Lower Division Major	CS 101	Computer Science I	4
Lower Division Major	MATH 131	Calculus II	3
TOTAL:			14

<b>Third Semester (suggested timeline for GE; adjust as needed for major)</b>			
E	LIBY 210	Introduction to Information Literacy Skills	1
B1/B3	PHYS 135	Physics for Scientists and Engineers 1	4
Lower Division Major	CS 211	Discrete Structures	3
Lower Division Major	CS 201	Computer Science II	4
Writing II/WID (2nd Comp)	ENGL 102	Accelerated English Writing	3
TOTAL:			15

D2	CS 230	Computing and Social Responsibility	3
D3	Social Science		3
Code 1	CA HIST		3
Lower Division Major	C3TOTAL:	16	

			3
			3
			3
<b>Fourth Semester (suggested timeline for GE; adjust as needed for major)</b>			

<b>Sixth Semester (suggested timeline for GE; adjust as needed for major)</b>			
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Upper Division Major	CS 413	Analysis of Algorithms	3
TOTAL:			15

<b>Seventh Semester (suggested timeline for GE; adjust as needed for major)</b>			
D4	Upper div Soc Sci		3
Upper Division Major	CS 401	Software Engineering	4
Upper Division Major	CS 421	Operating Systems	3
Upper Division Major	CS 411	Automata and Computation	3
Upper Division Major	CS Breadth	From breadth course list	3
TOTAL:			16

<b>Eighth Semester</b>			
C4	Art/Humanities elective		3
Upper Division Major	CS 441	Computer Networks	3
Upper Division Major	CS Breadth	From breadth course list	3
Upper Division Major	CS Elective	Any 300 or above not used for req/breadth	3
Upper Division Major	CS Elective	Any 300 or above not used for req/breadth	3
TOTAL:			15

Up to 9 units may be double counted, as follows: 3 units LD GE with Major Prefix; 3 units Code with LD GE; and 3 units Writing II with Major. LD GE courses that are required in the major, but outside of the major prefix, are permissible.

#### General Education and University Requirements-Suggested Courses

- A1. COMM 100
- A2. ENGL 101
- A3.
- B1/B3.
- B4.
- B6.
- C1. Arts
- C2.
- C3.
- C4.
- D1. Social Science elective
- D2.
- D3.

Humanities  
 Elective/Physical  
 INST  
 311

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