

COMPUTER SCIENCE, BS

Code	Title	Credits
Computer Science		37-40
CS-131	COMPUTER SCIENCE I	
CS-132	COMPUTER SCIENCE II	
CS-231	COMPUTER ORGANIZATION	
CS-234	PROGRAMMING METHODOLOGIES	
CS-331	PRIN. OF PROGRAMMING LANGUAGES	
CS-333	ALGORITHMS & DATA STRUCTURE	
CS-490	SOFTWARE ENGINEERING	
Select one 3 credit course numbered 491 or higher		
Select three Computer Science electives ¹		
Mathematics		10
MATH-151	CALCULUS I	
MATH-207	DISCRETE MATH I	
MATH-208	DISCRETE MATH II	
General Education Requirements (https://catalog.sbu.edu/undergraduate/degree-requirements)		37
Foreign Language ²		3
General Electives		34-37
Total Credits		120

¹ All three electives must be computer science courses between 240 and 380. CS-101 may count as an elective only if taken before CS-131. It is strongly recommended that majors complete five electives. With the permission of the student's adviser and the department chair, one of the electives may be fulfilled by a course offered by a department other than Computer Science that has been approved by the department. Approved courses currently are MATH-431 and MATH-432 and PHYS-451.

² The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

First Year		
Fall	Credits Spring	Credits
CS-131 & CSL-131	4 CS-132 & CSL-132	4
ENG-101	3 MATH-207	3
SBU-101	2 ENG-102	3
MATH-151 (or General Education Requirement)	3-4 SBU-102	1
Foreign Language/General Elective	3 Foreign Language	3
15-16		14

Second Year		
Fall	Credits Spring	Credits
CS-231	4 CS-234	4
MATH-208	3 MATH-152 (or General Education Requirement)	3-4
General Education Requirements	6 General Education Requirement	3
General Elective	3 General Elective	3
16		13-14

Third Year		
Fall	Credits Spring	Credits
CS-333	3 CS-331	3
Computer Science Elective	3-4 Computer Science Elective	3-4
General Education Requirement	4 General Education Requirement	3

General Electives		6 General Electives	6
16-17			15-16
Fourth Year			
Fall	Credits Spring	Credits	
CS-490	3 Select one of the following:	3	
Computer Science Elective	3-4 CS-491		
General Education Requirement	3 CS-492		
General Electives	6 CS-495		
		General Education Requirement	3
		General Electives	9
15-16		15	
Total Credits 119-124			

MATH-152 and MATH-241 are recommended as general electives for computer science majors.

Changes in the sequence of the program listed above may be desirable. These must be made in consultation with the student's academic adviser.