

## Advising Road Map

Major: Computer Science  
 Concentration in: \_\_\_\_\_  
 Total Units to Degree: 120  
 Academic Year: 2016-17

The following road map is an advising tool that outlines a path of courses a student can take to complete requirements for graduation. This roadmap should be used in consultation with the catalog and your department to identify additional requirements for completing the major (for example course grade minimums). Students must have 60+ units in order to take SJSU Studies courses.

Fall Semester- Year 1	
Course or Requirement	Units
Math 42	3
CS 46A	4
AMS 1A* (Amer Inst +GE: C1,D2, US1, US2,US3)	6
Engl 1A (GE Area A2)	3
Total Semester Units:	16

Spring Semester- Year 1	
Course or Requirement	Units
Math 30 (GE Area B4)	3
CS 46B	4
AMS 1B* +D1 (Amer Inst +GE:C2,D3,US1,US2,US3)	6
GE: Area E	3
Total Semester Units:	16

Fall Semester- Year 2	
Course or Requirement	Units
Math 31 (GE Area B4)	4
CS 47	3
#Phys 50 (GE Areas B1 & B3), preferred	4
GE: Area A1	3
Register to take WST	
Total Semester Units:	14

Spring Semester- Year 2	
Course or Requirement	Units
CS 49C or other CS elective	3
#Phys 51 (GE Areas B1 & B3), preferred	4
GE: Area B2	3
GE: Area C1 or C2	3
GE: Area A3	3
Total Semester Units:	16

Fall Semester- Year 3	
Course or Requirement	Units
CS 146	3
CS 147	3
Math 129A	3
CS 100W (Z)	3
KIN (PE)	1
Total Semester Units:	13

Spring Semester- Year 3	
Course or Requirement	Units
CS 149	3
CS 151	3
CS 154	3
Math 32 or 142 or 161A	3
Phil 134 (V)	3
Total Semester Units:	15

Fall Semester- Year 4	
Course or Requirement	Units
CS 152	3
CS 160	3
Upper Division CS Electives	6
SJSU Studies (R)	3
Total Semester Units:	15

Spring Semester- Year 4	
Course or Requirement	Units
**CS Deep Course	3
Upper Division CS Electives	8
SJSU Studies (S)	3
KIN (PE)	1
Total Semester Units:	15

NOTES: This plan assumes readiness for calculus and for an introductory CS course. It assumes that the 1-unit workshop courses Math 30W, 31W, 32W, and 42W are not taken along with the corresponding math courses -- BSCS students should consider taking them even though they are not listed here and do not count toward graduation (for CS majors). #Alternates to PHYS 50 and 51 are available; see <http://www.sjsu.edu/cs/practicalities/science-requirements/>. At least 5 units of electives must have CS 46A as a required direct or indirect prerequisite.

\*AMS 1A,1B for CS majors covers GE area C1 , C2 (one additional C1 or C2 required) and D1, D2, D3 + American Institutions US1, US2 and US3

\*\*A deep course is one of CS 116B, 123B, 153, 157B, 158, 161, 167B, or 167C.