## Advising Road Map

| Major: | BS - Computer Science |
| ---: | :---: |
| Concentration: |  |
| Total Units to Degree: |  |
| Academic Year: |  |

The following road map is a path of courses 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 |
| AMS 1A* | 6 |
| Engl 1A (A2) | 3 |
| CS 46A | 4 |
| Math 42 | 3 |
|  |  |
|  |  |
|  |  |
| Total Semester Units: |  |

Spring Semester - Year 1

| Course or Requirement | Units |
| :---: | :---: |
| GE: Area A1 | 3 |
| AMS 1B ${ }^{*}+\mathrm{D} 1$ | 6 |
| Math 30 (B4) | 3 |
| CS 46B | 4 |
|  |  |
|  |  |
|  |  |
|  |  |
| Total Semester Units: | 16 |

Fall Semester - Year 2

| Course or Requirement | Units |
| :---: | :---: |
| GE: Area A3 | 3 |
| MATH 31 (B4) | 4 |
| PHYS 50 (B1/B3), preferred | 4 |
| CS 47 | 3 |
|  |  |
|  |  |
| Total Semester Units: |  |


| Spring Semester - Year 2 |  |
| :---: | :---: |
| Course or Requirement | Units |
| GE: Area B2 | 3 |
| GE Area C1 or C2 | 3 |
| GE Area E | 3 |
| PHYS 51 (B1/B3), preferred | 4 |
| CS 49C or other CS elective | 3 |
|  |  |
| Take WST |  |
| Total Semester Units: | 16 |

Fall Semester - Year 3

| Course or Requirement | Units |
| :---: | :---: |
| CS 100W (Z) | 3 |
| CS 146 | 3 |
| CS 147 | 3 |
| MATH 129A | 3 |
| PE | 1 |
|  |  |
| Total Semester Units: |  |

Fall Semester - Year 4

| Course or Requirement | Units |
| :---: | :---: |
| SJSU Studies (R) | 3 |
| CE 152 | 3 |
| CS 160 | 3 |
| Upper Division CS Electives | 6 |
|  |  |
|  |  |
| Total Semester Units: |  |

Spring Semester - Year 3

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

## Spring Semester - Year 4

| Spring Semester - Year 4 |  |
| :---: | :---: |
| Course or Requirement | Units |
| SJSU Studies (S) | 3 |
| **CS Deep Course | 3 |
| Upper Division CS Electives | 8 |
| PE | 1 |
|  |  |
|  |  |
|  |  |
|  |  |
|  | 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, 32 W , 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 two CS electives should be chosen from the following list: CS 116A, CS 116B, CS 122, CS 123A, CS 123B, CS 134, CS 144, CS 153, CS 155, CS 156, CS 157A, CS 157B, CS 157C, CS 158A, CS 158B, CS 159, CS 161, CS 166, CS 174, CS 175.
*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, 157C, 158B or 161.

