EFFECTIVE Fall 2015

SAN FRANCISCO STATE UNIVERSITY BACHELOR OF SCIENCE IN COMPUTER SCIENCE PREREQUISITE CHART

SEMESTERS (Columns present suggested courses for each of 8 semesters)

1. **Math 226** Calculus I
2. **Math 227** Calculus II
3. **Physics 220/222**
4. **Physics 230/232**
5. **Math 325** Linear Algebra
6. **Math 324** Probability & Statistics
7. **CSC 520** Theory of Computing
8. **CSC 510** Analysis of Algorithms

Notes:

1. **CSC 210** Intro to Prog. (with 211)
2. **CSC 220** Data Structures
3. **CSC 230** Discrete Math
4. **CSC 256** Machine Structures
5. **CSC 300** Ethics, SW & Comm. (GWAR)
6. **CSC 340** Software Development
7. **CSC 400** Programming Languages
8. **CSC 413** Software Engineering
9. **CSC 415** Operating Systems
10. **CSC 600** Operating Systems
11. **CSC 648** Software Engineering
12. **CSC 656** Computer Organization

Approved Science Elective (i.e., BIOL 100, or BIOL 210)

- BIOL 101 is No longer required for CS Majors, see note #2 below

**Notes:**

- * = Courses MUST be taken concurrently.
- ** = A prerequisite course for a CS major class, but is not counted in the 71 units for the major.

1. **CSC 211** is a supporting lab that is recommended but not required.
2. For students without BIOL 101: **CSC 412** now required and should be taken at the same time as CSC 340. (CSC 412 replaces BIOL 101 lab)
3. **NOTE:** CSC 412 is one of the prerequisites for CSC 413.
4. Four electives are required, one of which must be either CSC 520 or CSC 656. Most courses above CSC 600 can be used as electives, as well as MATH 400.
5. Check [http://www.assist.org/web-assist/welcome.html](http://www.assist.org/web-assist/welcome.html) to find equivalent courses at community colleges.

For more information and course descriptions visit [http://cs.sfsu.edu](http://cs.sfsu.edu)