

# SFSU Computer Science Department Bachelor's Degree

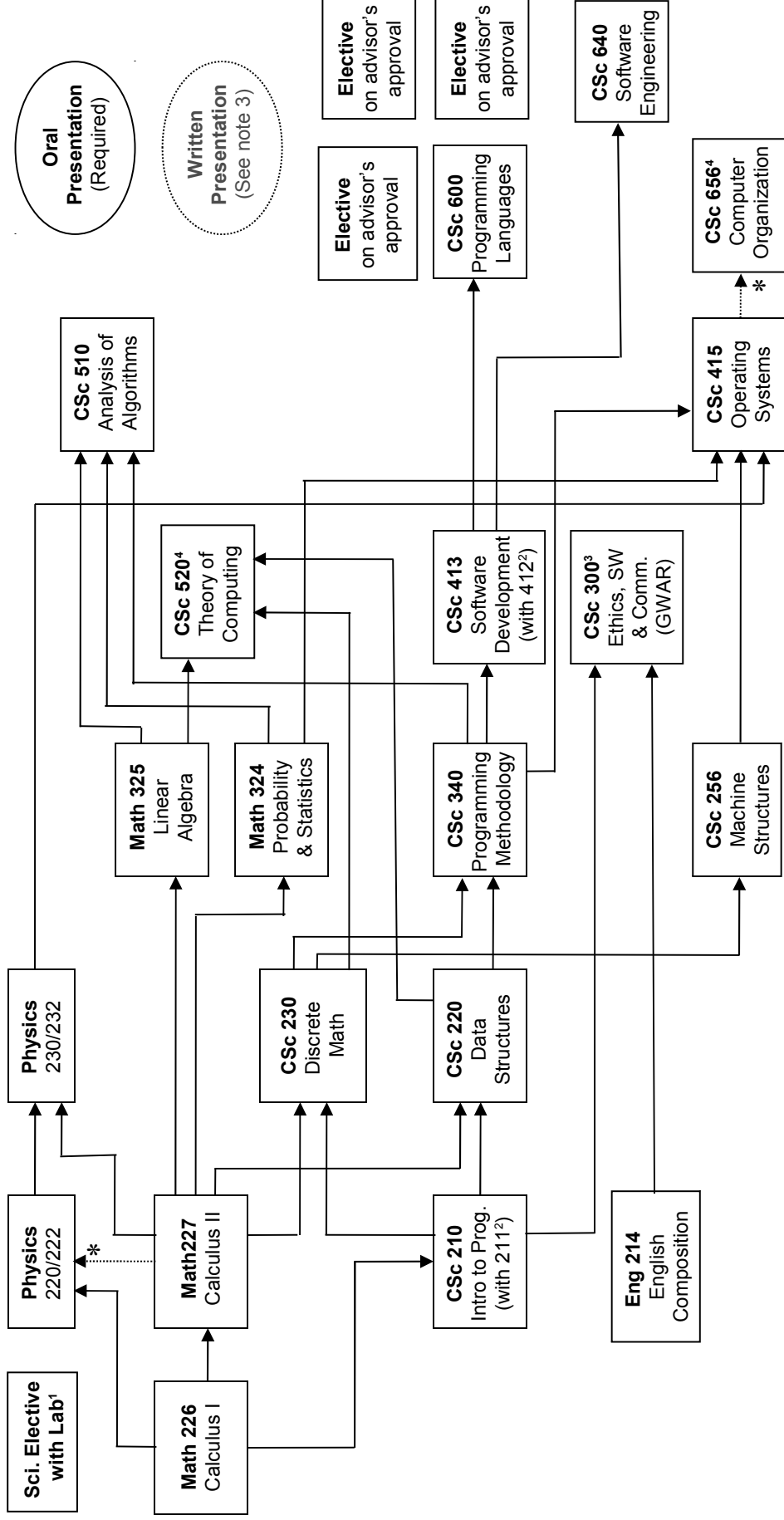
## Recommended Sequence of Study for Bulletin Year 2010- 2011

Course	Requirement	Units
<b>1st Semester Requirements (16 Units)</b>		
	GE 2 Physical and Biological Sciences: Science Elective & Lab (e.g. BIOL 100/101)	3
ENG 114	Written English Proficiency	3
COMM 150	GE 1 Oral Communication	4
MATH 226	GE 1 Quantitative Reasoning: Calculus I	5
<b>2nd Semester Requirements (16 Units)</b>		
CSC 210	Introduction to Programming (Supporting Lab CSC 211 Recommended — 1 Unit)	3
ENG 214	GE 1 Written Communication	3
PHYS 220/222	GE 2 Physical/Biological Sciences: General Physics with Calculus I & Lab	4
MATH 227	Calculus II	4
<b>3rd Semester Requirements (16 Units)</b>		
	GE 2 Humanities and Creative Arts	3
	GE 1 Critical Thinking	3
CSC 220	Data Structures	3
CSC 230	Discrete Mathematics	3
PHYS 230/232	General Physics with Calculus II & Lab	4
<b>4th Semester Requirements (15 Units)</b>		
	GE 2 Humanities and Creative Arts	3
CSC 256	Machine Structures	3
CSC 340	Programming Methodology	3
MATH 325	Linear Algebra	3
MATH 324	Probability & Statistics	3
<b>5th Semester Requirements (15 Units)</b>		
	GE 2 Behavioral and Social Sciences	3
	US History	3
CSC 300	Ethics, Software, and Communications (GWAR)	3
CSC 413	Software Development (Supporting Lab CSC 412 Recommended — 1 Unit)	3
CSC 520 or 656	Theory of Computing or Computer Organization	3
<b>6th Semester Requirements (15 Units)</b>		
	GE 2 Behavioral and Social Sciences	3
	GE 2 Humanities and Creative Arts	3
	GE 3 Cluster	3
CSC 415	Operating Systems	3
CSC 510	Analysis of Algorithms	3
<b>7th Semester Requirements (15 Units)</b>		
	US Government and California	3
	GE 2 Behavioral and Social Sciences	3
	GE 3 Cluster	3
CSC 600	Programming Languages	3
CSC ELECTIVE	Major Elective on Advisement (600 Level CS Classes or Math 400)	3
<b>8th Semester Requirements (15 Units)</b>		
	GE 2 Physical and Biological Sciences, Category C	3
	GE 3 Elective	3
CSC 640	Software Engineering	3
CSC ELECTIVE	Major Elective on Advisement (600 Level CS Classes or Math 400)	3
CSC ELECTIVE	Major Elective on Advisement (600 Level CS Classes or Math 400)	3
<b>Units Required for Major: 71</b>		<b>Units Required for Degree: 120</b>

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

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

1 2 3 4 5 6 7 8



**Notes:**

1. Approved science elective class with corresponding lab (e.g. BIO 100/101).
2. CSc 211 and CSc 412 are supporting labs. They are recommended but not required.
3. Students who have completed CSc 212 and CSc 305 can replace CSc 300 with a written presentation.
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.

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**For more information and course descriptions visit <http://cs.sfsu.edu>**