

Advising Road Map

Major:	BS Computer Engineering
Concentration in:	
Total Units to Degree:	120
Academic Year:	2016

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
Engr 10, Introduction to Engineering	3
Math 30, Calculus I	3
Math 42, Discrete Mathematics	3
Communications (GE Area A1)	3
English 1A, Composition (GE Area A2)	3
Total Semester Units:	15

Spring Semester- Year 1

Course or Requirement	Units
CmpE 30, Programming Concepts & Methodology	3
Math 31, Calculus II	4
Physics 50, Mechanics	4
English 1B, Composition II (GE Area C2)	3
Total Semester Units:	14

Fall Semester- Year 2

Course or Requirement	Units
Math 32, Calculus III	3
Phys 51, Electricity and Magnetism	4
CmpE 50, Object-Oriented Concepts & Methodology	3
American Studies 1A (GE Areas C1, D2)	6
Total Semester Units:	16

Spring Semester- Year 2

Course or Requirement	Units
Math 123 Differential Equations & Linear Algebra	3
EE 97, Intro Electrical Engineering Laboratory	1
EE 98, Introduction to Circuit Analysis	3
CmpE 126, Algorithms & Data Structure Design	3
American Studies 1B (GE Areas C2, D3)	6
Total Semester Units:	16

Fall Semester- Year 3

Course or Requirement	Units
ISE 130, Engineering Probability and Statistics	3
CmpE 102, Assembly Language Programming	3
CmpE 110, Electronics for Computing Systems	3
CmpE 124, Digital Design I	3
Engr 100W, Engineering Report (Areas R, Z)	3
Total Semester Units:	15

Spring Semester- Year 3

Course or Requirement	Units
CmpE 125, Digital Design II	3
CmpE 127, Microprocessor Design	3
CmpE 130, Advanced Algorithm Design	3
CmpE 131, Software Engineering I	3
CMPE 142, Operating Systems Design	3
Total Semester Units:	15

Fall Semester- Year 4

Course or Requirement	Units
Biol 10, The Living World	3
CmpE 140, Computer Architecture and Design	3
CmpE 148, Computer Network	3
CmpE 152, Compiler Design	3
CmpE 195A, Senior Design Project I	2
Engr 195A (GE Areas S, V)	1
Total Semester Units:	15

Spring Semester- Year 4

Course or Requirement	Units
CmpE 146, Real-Time Embedded System Co-Design	3
Technical Electives	3
Technical Electives	3
Technical Electives	1
CmpE 195B, Senior Design Project II	3
Engr 195B (GE Areas S, V)	1
Total Semester Units:	14

NOTES: a) A minimum 2.0 GPA in all REQUIRED COURSES and TECHNICAL ELECTIVES taken at SJSU has been achieved; b) A minimum "C" in Math 030, Math 031 and Phys 050 has been achieved; c) A minimum "C-" in the remaining courses in preparation for the major as well as in all courses in requirements of the major has been achieved; d) A minimum "C" in CmpE 195 A/B and Engr 195 A/B has been achieved.