

## Advising Road Map

Major: BS Mechanical Engineering  
 Concentration in: \_\_\_\_\_  
 Total Units to Degree: 120  
 Academic Year: \_\_\_\_\_

*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 30, Calculus I	3
Chem 1A, General Chemistry	5
Engr 10, Intro to Eng (GE Area E)	3
Engl 1A, Composition (GE Area A2)	3
ME 20, Design and Graphics	2
Total Semester Units:	16

Spring Semester- Year 1	
Course or Requirement	Units
Math 31, Calculus II	4
Physics 50, Mechanics	4
ME 30, Computer Applications	2
Communications (GE Area A1)	3
English 1B, Composition II(GE Area C2)	3
Total Semester Units:	16

Fall Semester- Year 2	
Course or Requirement	Units
Math 32, Calculus III	3
MatE 25, Intro to Materials	3
Phys 51, Electricity and Magnetism	4
GE ( Area C1,D1)/Am Studies 1A	6
Total Semester Units:	16

Spring Semester- Year 2	
Course or Requirement	Units
Math 133A, Differential Equations	3
CE 95, Statistics	3
Physics 52, Atomic, Heat and Light	4
GE (Areas C2, D3)/Am Studies 1B	6
Total Semester Units:	16

Fall Semester- Year 3	
Course or Requirement	Units
CE 112, Mechanics of Materials	3
ME 101, Dynamics	3
ME 111, Fluid Mechanics	3
ME 113, Thermodynamics	4
EE 98, Intro. To Circuit Analysis	3
Total Semester Units:	16

Spring Semester- Year 3	
Course or Requirement	Units
ME 106, Fund. Mechatronics Eng.	3
ME 114, Heat Transfer	3
ME 130, Applied Engr Analysis	3
ME 41, Shop Safety	1
ME 154, Mech. Engr. Design	4
ENGR 100W, Engr. Reports	3
Total Semester Units:	17

Fall Semester- Year 4	
Course or Requirement	Units
Capstone Course (ME 157, 182, or 190)	3
ME 115, Thermal Engineering Lab	1
ME 120, Experimental Methods	2
ME 147, Dyn Sys Vib & Control	3
ME 195A, Senior Design Project I	3
ENGR 195A, (GE Area S/V)	1
Total Semester Units:	13

Spring Semester- Year 4	
Course or Requirement	Units
ME 195B Senior Design Project II	3
ENGR 195B, (GE Area S/V)	1
Technical Electives	6
Total Semester Units:	10

**NOTES:**

Minimum Units for Graduation: 120

Students must pass the placement tests to enroll in Math 30 and Engl 1A.