

## Advising Road Map

Major:	BS Aerospace Engineering
Concentration in:	
Total Units to Degree:	120
Academic Year:	2016-17

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 (B4)	3
CHEM 1A- General Chemistry	5
ENGR 10- Intro to Engineering (E)	3
ENGL 1A- Composition I (A2)	3
AE 20- CAD for AE	2
Total Semester Units:	16

### Spring Semester- Year 1

Course or Requirement	Units
MATH 31- Calculus II	4
PHYS 50- Mechanics	4
AE 30- Computer Programming for AE	2
ENGL 1B- Composition II (C2)	3
GE A1- Communications	3
Total Semester Units:	16

### Fall Semester- Year 2

Course or Requirement	Units
MATH 32- Calculus III	3
PHYS 51- Electricity & Magnetism	4
MATE 25- Introduction to Materials	3
AMS 1A	6
Register to take WST	
Total Semester Units:	16

### Spring Semester- Year 2

Course or Requirement	Units
MATH 133A- Differential Equations	3
PHYS 52- Heat & Light	4
EE 98- Intro to Circuit Analysis	3
AMS 1B	6
Total Semester Units:	16

### Fall Semester- Year 3

Course or Requirement	Units
MATH 129A- Linear Algebra	3
ENGR 100W- Engineering Reports (Z & R)	3
AE 138- Vector Dyn for Aero. Appl	3
AE 112- AE Structural Analysis I	4
AE 160- Aerodynamics I	3
Total Semester Units:	16

### Spring Semester- Year 3

Course or Requirement	Units
AE 114- AE Structural Analysis II	3
AE 140- Rigid Body Dynamics	3
AE 157- Aero. Auti. Contr. Sys. Des	3
AE 162- Aerodynamics II	3
AE 165- Aerospace Flight Mechanics	3
Total Semester Units:	15

### Fall Semester- Year 4

Course or Requirement	Units
AE 164- Aerothermodynamics	5
AE 168- Aero Vehicle Dyn. & Control	3
AE 171A or AE 172A (S)	3
ENGR 195A- Gbl & Soc. Issues in Engr. I	1
Total Semester Units:	12

### Spring Semester- Year 4

Course or Requirement	Units
AE 167- Aerospace Propulsion	3
AE 169- Comp. Fluid Dynamics	3
AE 171B or AE 172B (V)	3
ENGR 195B- Gbl & Soc. Issues in Engr. II	1
Technical Elective	3
Total Semester Units:	13

NOTES:

