

Advising Road Map

Major:	BS Materials 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 (P)	3
CHEM 1A GEN. CHEM	5
ENGL 1A COMPOSITION	3
ENGR 10 INTRO ENGR (E)	3
Total Semester Units:	14

Spring Semester- Year 1	
Course or Requirement	Units
MATH 31 CALCULUS II	4
CHEM 1B GEN. CHEM	5
PHYS 50 GEN. PHYSICS (P)	4
ENGL 1B COMPOSITION	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 GEN. PHYSICS	4
AMS 1A AMERICAN STUDIES	6
Register to take WST	
WRITING SKILLS TEST	0
Total Semester Units:	16

Spring Semester- Year 2	
Course or Requirement	Units
MATH 133A ORD. DIF. EQN	3
CE 99 STATICS	2
EE 98 INTRO. CIRCUIT ANAL.	3
AMS 1B AMERICAN STUDIES	6
GE (A1) ORAL COMM	3
Total Semester Units:	17

Fall Semester- Year 3	
Course or Requirement	Units
ENGR 100W ENGR REPORT (Z & R)	3
CHEM 161A PHYS. CHEM. I	3
MATE 115 STRUC/PROPS SOLIDS (LD)	3
CHE 162 STATISTICS & ANALYSIS	3
MATE 153 ELEC. PROP. MATLS	3
MATE 143 SCANNING ELECTRON	1
Total Semester Units:	16

Spring Semester- Year 3	
Course or Requirement	Units
MATE 151 PROC THERMO	3
MATE 154 METALS & ALLOYS	3
MATE 141 MATERIALS ANALYSIS	3
MATE 155 MATERIALS PROC ENGR.	3
MATE 144 XRAY DIFF LAB	1
TECH ELECTIVE	3
Total Semester Units:	16

Fall Semester- Year 4	
Course or Requirement	Units
MATE 195 MECH. BHVR. MATLS (JC, 100W)	3
MATE 185 CERAMICS (JC, 100W)	3
MATE 198A SEN. DESIGN PROJ. (JC, 100W)	2
TECH ELECTIVE	3
CHE 161 LAB SAFETY & ETH. (JC, 100W)	1
Engr 195A (S)	1
Total Semester Units:	13

Spring Semester- Year 4	
Course or Requirement	Units
MATE 152 SOLID STATE KIN. (JC, 100W)	3
MATE 186 POLYMERS	3
MATE 198B SEN. DESIGN PROJECT	2
TECH ELECTIVE	3
Engr 195B (V)	1
Total Semester Units:	12

3

6

9

NOTES: