Advising Road Map

Major:	BS Chemical 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 (P)	3
ENGR 10 PROC. & ANALYSIS (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	6
WRITING SKILLS TEST	0
Register to take WST	
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	6
Total Semester Units:	14

Fall Semester- Year 3

Course or Requirement	Units
CHEM 112A ORGAN. CHEM. I	3
CHE 115 INDUS.CHEM.CALCS. (JR)	3
CHE 190 INTRO. TRANSPORT. (JR)	3
CHE 162 STATISTICS & ANALYSIS	3
TECH ELECTIVE	3
Total Semester Units:	15

Spring Semester- Year 3

Course or Requirement	Units	
CHE 151 THERMODYNAMICS	4	
CHE 160A UNIT OPERATIONS I	4	
ENGR 100W ENGR. REPORTS (Z & R)	3	
CHEM 113A ORGAN.CHEM.LAB	2	
GE (ORAL COMMUNICATION)	3	3
Total Semester Units:	16	

Fall Semester- Year 4

Course or Requirement	Units
CHEM 112B ORGAN CHEM. II	3
Engr 195A	1
CHE 158 KINETICS & RXNS. (SR)	3
CHE 160B UNIT OPER. II (SR) (S)	4
CHE 161L UNIT OPS. LAB (SR,100W)	2
CHE 161 SAFETY & ETHICS	1
Total Semester Units:	14

Spring Semester- Year 4

Course or Requirement	Units	
CHE 162L UNIT OPS. LAB (100W)	1	
CHE 165 PLANT DESIGN (V)	4	
CHE 185 PRO. DYN. & CONT.	3	
TECH ELECTIVE	3	3
TECH ELECTIVE	3	3
Engr 195B	1	
Total Semester Units:	15	9

NOTES: