

### Advising Road Map

Major:	BS Biological Sciences
Concentration in:	Marine Biology
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
Chem 1A (B1/B3)	5
Biol 30 (B2/B3)	4
Engl 1A (A2)	3
GE Area A1	3
Total Semester Units:	15

#### Spring Semester- Year 1

Course or Requirement	Units
Chem 1B (B1/B3)	5
Biol 31	4
Area C2 (Engl 1B recommended)	3
Biol 55 (B4)	3
Total Semester Units:	15

#### Fall Semester- Year 2

Course or Requirement	Units
Chem 8	3
Area E (Biol 54 recommended)	3
Amer Inst + GE: D2, US1, US2, US3 (Hist 15A, AFAM 2A, AAS 33A, MAS 10A)*	3
Phys 2A (B1/B3)	4
PE	1
Take the Writing Skills Test	
Total Semester Units:	14

#### Spring Semester- Year 2

Course or Requirement	Units
Chem 9	1
Math 30 (Area: B4)**	3
Amer Inst + GE: D3, US1, US2, US3 (Hist 15B, AFAM 2B, AAS 33B, MAS 10B)*	3
BIOL 115 (Partial R)	4
Biol 113	3
PE	1
Total Semester Units:	15

#### Fall Semester- Year 3

Course or Requirement	Units
Biol 114	3
Biol 156	3
GE Area D1	3
GE Area C1	3
GE Area C2 or C1	3
Total Semester Units:	15

#### Spring Semester- Year 3

Course or Requirement	Units
BIOL 106	3
BIOL 106L	1
Biol 118	3
Zool 115 or Elective***	4
BIOL 100W	3
BIOL 180	1
Total Semester Units:	15

#### Fall Semester- Year 4

Course or Requirement	Units
MS 103	4
Major Elective***	4
SJSU Studies Area V (POLS 170V****)	3
Biol 160 or Bot 160 (meets Area R with Biol 115)	4
Total Semester Units:	15

#### Spring Semester- Year 4

Course or Requirement	Units
MS 144	4
Major Elective***	4
SJSU Studies Area S (HIST 170S****)	3
BIOL 180	1
Chem 132	4
Total Semester Units:	16

NOTES: \* In order to satisfy both requirements, it is necessary to take the complete series (e.g. HIST 15A and HIST 15B)

\*\* Either Biol 55 or Math 30 may be used to satisfy the B4 math requirement. **Students must take the Calculus Placement Exam in the Fall prior to enrolling in calculus in the Spring.**

\*\*\* You must get approval from your advisor for appropriate electives

\*\*\*\* If you are a transfer student and have fulfilled all GE, you will need to take these courses to fulfill the American Institutions requirement.