

**Bold= must take courses & pass before applying**

Green= Undergraduate courses  
Orange= Graduate Courses

## SF State Scholars \*Tentative\* Biochemistry + Chemistry (Biochemistry Concentration) Roadmap

**\*\*Students must meet with their advisor prior to registering for courses. This roadmap is designed for general planning ONLY! Roadmaps for more than 5 years plan may vary please consult with your department.**

**Freshman**

**Sophomore**

**Junior**

**Senior**

**Graduate**

Fall	Spring
CHEM 115	MATH 227
Area A2 (ENG 114)	CHEM 215/216
MATH 226	PHYS 111/112 or 220/222
Area A	Area E
<b>15 Units</b> <b>(15 total)</b>	<b>16 Units</b> <b>(31 total)</b>

Fall	Spring	Summer
CHEM 233/234	CHEM 335	SF Elective
PHYS 121/122 or 240/242	BIO 230	SF Elective
CHEM 321	Area C	
Area A	Area D	
<b>15 Units</b> <b>(46 total)</b>	<b>14 Units</b> <b>(60 total)</b>	<b>6 Units</b> <b>(66 total)</b>

Fall	Spring
CHEM 340	CHEM 300
CHEM 343	CHEM 341
Major UD-Elective	Major UD- Elective
Area C	Area C
Area D	Area D
<b>15 Units</b> <b>(81 total)</b>	<b>15 Units</b> <b>(96 total)</b>
<b>Apply to SF Scholars</b>	
<b>Completed 60 units</b>	<b>3.0 GPA</b>

Fall	Spring
CHEM 301	Major UD Elective
Major UD-Elective	UD-D
UD-B	SF Elective
UD-C	Related Study
Related Study	CHEM 879
<b>15 Units</b> <b>(111 total)</b> <b>Grad (3)</b>	<b>15 Units</b> <b>(120 total)</b> <b>Grad (9)</b>

Fall	Spring
CHEM 897	CHEM 880
CHEM 897	CHEM 897
Related Study	Culminating Experience
Related Study	
<b>12 Units</b> <b>Grad (21)</b>	<b>9 Units</b> <b>Grad (30)</b>

Minimum Units required for Bachelors =120  
Minimum Units required for Masters = 30