### Major:
- BA
- Physics

### Concentration in:
- Teacher Preparation

### Total Units to Degree:
- 120

### Academic Year:
- 2017 - 2018

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

<table>
<thead>
<tr>
<th>Course or Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE: Area E</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A2 (Engl 1A preferred)</td>
<td>3</td>
</tr>
<tr>
<td>Chem 1A (B1/B3)</td>
<td>5</td>
</tr>
<tr>
<td>Math 30 (B4)</td>
<td>3</td>
</tr>
<tr>
<td>KIN (PE)</td>
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</table>

**Total Semester Units:** 15

#### Spring Semester - Year 1

<table>
<thead>
<tr>
<th>Course or Requirement</th>
<th>Units</th>
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<tbody>
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<td>GE: Area A1</td>
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<tr>
<td>Chem 1B (B1/B3)</td>
<td>5</td>
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<tr>
<td>Phys 50 (B1/B3)</td>
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<tr>
<td>Math 31 (B4)</td>
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**Total Semester Units:** 16

#### Fall Semester - Year 2

<table>
<thead>
<tr>
<th>Course or Requirement</th>
<th>Units</th>
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<tbody>
<tr>
<td>GE: Area C1</td>
<td>3</td>
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<tr>
<td>GE: Area A3</td>
<td>3</td>
</tr>
<tr>
<td>GE: Area D2 or D3/US123</td>
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<tr>
<td>Phys 51 (B1/B3)</td>
<td>4</td>
</tr>
<tr>
<td>Math 32 (B4)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Units:** 16

#### Spring Semester - Year 2

<table>
<thead>
<tr>
<th>Course or Requirement</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GE: Area D2 or D3/US123</td>
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</tr>
<tr>
<td>Phys 52 (B1/B3)</td>
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<td>Biol 20 (B2/B3)</td>
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<td>Physics 122</td>
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<td>Chem 120S</td>
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<tr>
<td>SCED 175</td>
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<td>Take WST</td>
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**Total Semester Units:** 15

#### Fall Semester - Year 3

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<tbody>
<tr>
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<tr>
<td>GE: Area C1 or C2</td>
<td>3</td>
</tr>
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<td>Phys 105A</td>
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<tr>
<td>Biol 21 (B2/B3)</td>
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</tbody>
</table>

**Total Semester Units:** 15

#### Spring Semester - Year 3

<table>
<thead>
<tr>
<th>Course or Requirement</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Engl 100W (Z) or science 100W (Z)</td>
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<tr>
<td>Geol 103 (R)</td>
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<tr>
<td>Phil 133 (V)</td>
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<td>Phys 120A</td>
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<td>Phys 160</td>
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**Total Semester Units:** 15

#### Fall Semester - Year 4

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<th>Course or Requirement</th>
<th>Units</th>
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<tbody>
<tr>
<td>Astr 101 (R)</td>
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<tr>
<td>Phys 110</td>
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</tr>
<tr>
<td>Phys 120B or 120C*</td>
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<tr>
<td>Phys 140</td>
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</tr>
<tr>
<td>Sci 110</td>
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**Total Semester Units:** 15

#### Spring Semester - Year 4

<table>
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<th>Course or Requirement</th>
<th>Units</th>
</tr>
</thead>
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<tr>
<td>SJSU Studies (S)</td>
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</tr>
<tr>
<td>Geol 105 or Metr 112 *</td>
<td>3</td>
</tr>
<tr>
<td>Phys 158</td>
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<td>Upper Division Phys Elective</td>
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<td>KIN (PE)</td>
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**Total Semester Units:** 13

**NOTES:** *We recently changed our 120B and 120C upper division labs from 2 units to 3, so we have incorporated the one unit of university elective into this class. Our curriculum committee is currently working on the changes to the BA Teacher Prep to accommodate the curricular changes in our physics majors' classes.*