### San Francisco State University

**Degree Roadmap: Bulletin Year 2007 - 2008**

**BS Degree in Environmental Studies - Earth System Science (310107)**

Minimum Number of Units in Major = 74

**Bulletin URL:** [http://www.sfsu.edu/~bulletin/current/programs/environstds.htm#310107](http://www.sfsu.edu/~bulletin/current/programs/environstds.htm#310107)

**Key to Course Abbreviations:** [http://www.sfsu.edu/~admisrec/reg/noindex/crsabbrev.html](http://www.sfsu.edu/~admisrec/reg/noindex/crsabbrev.html)

**April 8, 2008**

#### 1st Semester Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Recommended Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Information Competence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English Proficiency</td>
<td>ENG 114</td>
<td>3</td>
</tr>
<tr>
<td>GE 1 Oral Communication</td>
<td>COMM 150</td>
<td>3</td>
</tr>
<tr>
<td>GE 2 Physical and Biological Sciences, Category B (See Note 1: Choose BIOL 230 if pursuing NRMC concentration)</td>
<td></td>
<td>3 to 5</td>
</tr>
<tr>
<td>GE 2 Behavioral and Social Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE 2 Humanities and Creative Arts</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** Review the Bulletin for GE II requirements in the following areas:

- LLD- Lifelong Development
- AERM- American Ethnic and Racial Minorities
- L/F- Laboratory or Fieldwork

**Totals:** 15 to 17

#### 2nd Semester Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Recommended Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 1 Critical Thinking</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE 1 Quantitative Reasoning</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE 2 Physical and Biological Sciences, Category A also satisfies Major Core</td>
<td>CHEM 115</td>
<td>5</td>
</tr>
<tr>
<td>GE 2 Behavioral and Social Sciences, Category A or C (also satisfies Major Core Human Environment (See Note 2))</td>
<td>ANTH 120 or GEOG 102</td>
<td>3</td>
</tr>
<tr>
<td>GE 2 Humanities and Creative Arts</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Totals:** 17

#### 3rd Semester Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Recommended Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>US History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE 1 Written Communication also satisfies University Written English Proficiency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE 2 Behavioral and Social Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE 2 Humanities and Creative Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Core</td>
<td>ENVS 300</td>
<td>3</td>
</tr>
</tbody>
</table>

**Totals:** 15

#### 4th Semester Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Recommended Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Government and California</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE 2 Physical and Biological Sciences, Category C (also satisfies Major Core Physical Environment)</td>
<td>GEOG 101 or GEOL 270</td>
<td>3</td>
</tr>
<tr>
<td>Major Core</td>
<td>ENVS 380 or CHEM 380</td>
<td>3</td>
</tr>
<tr>
<td>Major Core (Ecology (See Note 1))</td>
<td>BIOL 313 or BIOL 240</td>
<td>3 to 5</td>
</tr>
<tr>
<td>University Elective</td>
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</table>

**Note:** Take JEPET after 48 units earned to satisfy Written English Proficiency.

**Totals:** 13 to 15

#### 5th Semester Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Recommended Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written English Proficiency (if required) or University Elective</td>
<td>ENG 414</td>
<td>3</td>
</tr>
<tr>
<td>GE 3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Core</td>
<td>ENVS 450</td>
<td>3</td>
</tr>
<tr>
<td>Major Core</td>
<td>ENVS 600 or GEOG 600</td>
<td>3</td>
</tr>
<tr>
<td>Major Core (Environmental Justice/Urban Issues)</td>
<td></td>
<td>3 to 4</td>
</tr>
</tbody>
</table>

**Totals:** 15 to 16

#### 6th Semester Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Recommended Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Core (Human Values &amp; Environmental Ethics)</td>
<td></td>
<td>3 to 4</td>
</tr>
<tr>
<td>Major</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Totals:** 15 to 16

#### 7th Semester Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Recommended Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Core</td>
<td>ENVS 680</td>
<td>3</td>
</tr>
<tr>
<td>Major</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Totals:** 15

#### 8th Semester Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Recommended Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Core</td>
<td>ENVS 690</td>
<td>3</td>
</tr>
<tr>
<td>Major</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Totals:** 15

**Note:** Consult with major advisor regarding choice of concentration and course sequencing. Consult ENVS website at [http://bss.sfsu.edu/envstudies/formajors.html](http://bss.sfsu.edu/envstudies/formajors.html)
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Note 1: You must choose BIOL 230 & BIOL 240 if you are pursuing a B.S. in NRMC. These are sequential courses: both must be completed to fulfill the major requirements.

Note 2: You may choose ECON 306 or ENVS 306 in place of ANTH 120 or GEOG 102 and choose a different course to satisfy this area of GE.

Department Website: http://bss.sfsu.edu/envstudies/