### Environmental Science Specialization Requirements

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Cr</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 243</td>
<td>Geology (p Chem 112)</td>
<td>3</td>
<td>SP'</td>
<td></td>
</tr>
<tr>
<td>ENVM/EES 275</td>
<td>Intro to Environmental Science (p Biol 151 &amp; Chem 112)</td>
<td>3</td>
<td>FA’</td>
<td></td>
</tr>
<tr>
<td>GEOG 487</td>
<td>Geographic Information Systems</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Ecology Specialization Requirements

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Cr</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 373</td>
<td>Evolution (p Biol 151)</td>
<td>3</td>
<td>FA’</td>
<td></td>
</tr>
<tr>
<td>BIOL/NRM 464</td>
<td>Ecosystem Ecology (p Biol/NRM 311)</td>
<td>3</td>
<td>SP’</td>
<td></td>
</tr>
<tr>
<td>BIOL 419/419L</td>
<td>Plant Ecology &amp; Lab (p Biol 151)</td>
<td>4</td>
<td>FA’</td>
<td></td>
</tr>
</tbody>
</table>

### General Electives

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Cr</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
</table>

### Major/College Requirements

**TAKING ALL**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Cr</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
</table>

**Select ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Cr</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
</table>

### Chemistry

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Cr</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
</table>

### Physics

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Cr</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
</table>

As a reminder, you must have a total of 120 credits to graduate with your Bachelor’s degree.
B.S. in Biological Science
Ecology and Environmental Science Major (2012-2013) Progress Sheet, 120 credit program

Ecology Emphasis Requirements
This list will help you keep track of your courses. Refer to the course catalog for the official requirements for graduation. Catalog takes precedence over sheet.

Ecology Emphasis Requirements, (26-30)
Systematics/Survey Electives (Choose 1 Bot and 1 BIOL, WL or ZOOL)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Semester/Yr</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 301/301L</td>
<td>3</td>
<td>SP</td>
<td></td>
</tr>
<tr>
<td>BOT 405/405L</td>
<td>3</td>
<td>FA</td>
<td></td>
</tr>
<tr>
<td>BOT 415/415L</td>
<td>3</td>
<td>FA, ODD</td>
<td></td>
</tr>
<tr>
<td>WL 363/363L</td>
<td>3</td>
<td>SP</td>
<td></td>
</tr>
<tr>
<td>WL 367/367L</td>
<td>3</td>
<td>FA</td>
<td></td>
</tr>
<tr>
<td>WL 302</td>
<td>3</td>
<td>SP, ODD</td>
<td></td>
</tr>
<tr>
<td>FS 305/305L</td>
<td>3</td>
<td>FA</td>
<td></td>
</tr>
<tr>
<td>WL 355/355L</td>
<td>3</td>
<td>FA</td>
<td></td>
</tr>
<tr>
<td>BIOL 441/441L</td>
<td>4</td>
<td>SP</td>
<td></td>
</tr>
<tr>
<td>BIOL 467/467L</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other Ecology Emphasis Electives: You must choose at least 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Semester/Yr</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 221/221L</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 325/325L</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 440/440L</td>
<td>4</td>
<td>FA, EVN</td>
<td></td>
</tr>
<tr>
<td>BIOL 457</td>
<td>3</td>
<td>FA</td>
<td></td>
</tr>
<tr>
<td>BIOL 466</td>
<td>3</td>
<td>SP, EVN</td>
<td></td>
</tr>
<tr>
<td>BIOL 496 or 498</td>
<td>3-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bot 303</td>
<td>3</td>
<td>FA</td>
<td></td>
</tr>
<tr>
<td>Bot 327/327L</td>
<td>4</td>
<td>SP</td>
<td></td>
</tr>
<tr>
<td>Micr 310/310L</td>
<td>4</td>
<td>SP, EVN</td>
<td></td>
</tr>
<tr>
<td>Micr 421/421L</td>
<td>3</td>
<td>SP, ODD</td>
<td></td>
</tr>
<tr>
<td>Rang 325/325L</td>
<td>3</td>
<td>SU</td>
<td></td>
</tr>
<tr>
<td>WL 370/370L</td>
<td>3</td>
<td>FA, EVN</td>
<td></td>
</tr>
<tr>
<td>WL 302</td>
<td>3</td>
<td>SP, ODD</td>
<td></td>
</tr>
</tbody>
</table>

Eligibility for certification as an Associate Ecologist by the Ecological Society of America (ESA) requires the following:

“Candidates must hold a bachelor’s degree which includes the equivalent of at least 30 semester hours of biological science with at least 9 semesters hours of ecology, and at least 12 semester hours if physical and mathematical science. Undergraduate requirements may be met in graduate programs but should be documented. Graduate degrees must include an introduction to three major areas of ecology inquiry: populations, communities and ecosystems.”

As a reminder, you must have a total of 120 credits to graduate with your Bachelor’s degree.