# BIOENVIRONMENTAL SCIENCES - BS

## Program Requirements

### First Year

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BESC 201</td>
<td>Introduction to Bioenvironmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 111 or BIOL 101</td>
<td>Introductory Biology I or Botany</td>
<td>4</td>
</tr>
<tr>
<td>ECCB 205</td>
<td>Fundamentals of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ECCB 215</td>
<td>Fundamentals of Ecology--Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Social and behavioral sciences (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences</a>)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Semester Credit Hours**: 14

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 112 or BIOL 107</td>
<td>Introductory Biology II or Zoology</td>
<td>4</td>
</tr>
<tr>
<td>Communication (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Government/Political science (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Language, philosophy and culture (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Bioenvironmental group elective</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Semester Credit Hours**: 16

### Second Year

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 119</td>
<td>Fundamentals of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>PLPA 301</td>
<td>Plant Pathology</td>
<td>3</td>
</tr>
<tr>
<td>PLPA 303</td>
<td>Plant Pathology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Government/Political science (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Bioenvironmental group elective</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Semester Credit Hours**: 16

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 120</td>
<td>Fundamentals of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>American history (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Creative arts (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Bioenvironmental group elective</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Semester Credit Hours**: 14

### Third Year

#### Fall

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 222 &amp; CHEM 242</td>
<td>Elements of Organic and Biological Chemistry and Elementary Organic Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 227 &amp; CHEM 237</td>
<td>Organic Chemistry I and Organic Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>American history (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a>)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Mathematics (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a>)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Bioenvironmental group elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Technical elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General elective</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Semester Credit Hours**: 16

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENE 310</td>
<td>Principles of Heredity</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Bioenvironmental group elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Technical elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General elective</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Semester Credit Hours**: 15

### Fourth Year

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCSC 301</td>
<td>Soil Science</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 201</td>
<td>Elementary Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>STAT 301</td>
<td>Introduction to Biometry</td>
<td></td>
</tr>
<tr>
<td>STAT 302</td>
<td>Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>STAT 303</td>
<td>Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>Communication (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a>)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Bioenvironmental group elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Technical elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Semester Credit Hours**: 16

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BESC 481</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BESC 484</td>
<td>Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>Bioenvironmental group elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Technical elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Semester Credit Hours**: 13

**Total Semester Credit Hours**: 120

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1 Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) courses and 3 hours of Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-
information/degree-information/cultural-discourse-requirements/ courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. Select in consultation with an academic advisor.

Select 18 hours from:
- BESC 204
- BESC 311
- BESC 314
- BESC 320
- BESC 357
- BESC 367
- BESC 401
- BESC 402
- BESC 403
- BESC 411
- BESC 431
- BESC 489
- SCSC 405
- Other courses approved by advisor.

Courses may be selected from categories designed to reflect the professional aspirations of the student. Select 15 hours from:
- ACCT 209
- AGEC 344
- AGEC 350
- AGEC 429
- AGSM 335
- AGSM 360
- ANSC 326/FSTC 326
- BICH 303
- BICH 411
- BIOL 213
- BIOL 214
- BIOL 357
- BIOL 440
- CHEM 228
- CHEM 238
- CHEM 316
- CHEM 318
- ECCB 308
- ECCB 309
- ECCB 351
- ECCB 403
- ECCB 460/RPTS 460
- ENTO 201
- ENTO 424
- FINC 409
- GENE 412
- GENE 431/BICH 431
- GENE 432/BICH 432
- GEOG 201
- GEOG 202
- GEOG 203
- GEOG 205
- GEOG 213
- GEOG 330
- GEOG 380
- GEOG 390
- GEOG 398
- GEOG 434
- GEOG 435
- GEOL 101
- GEOL 104
- GEOL 410
- GEOL 420
- GEOS 105
- HIST 359
- HORT 201
- ISTM 209
- MEPS 313
- MEPS 411
- FSTC 201
- MGMT 209
- MGMT 309
- MKTG 409
- OCNG 320
- PHIL 314
- PHLT 305
- PHLT 330
- PHYS 201
- PHYS 202
- PHYS 206
- POLS 306
- POLS 347
- RPTS 307
- RWFM 306
- RWFM 308
- RWFM 314
- RWFM 375
- RWFM 405
- RWFM 406
- RWFM 407
- RWFM 411
- RWFM 420
- RWFM 428
- RWFM 436
- RWFM 440
- RWFM 470
- SCSC 105
- SCSC 201
- SCSC 205
- SCSC 300
- SCSC 310
- SCSC 311
- SCSC 315
- SCSC 330
- SCSC 406
- SCSC 410
- SCSC 420
- SCSC 421
- SCSC 444
- SCSC 455
- SCSC 458
- SOCI 328
- URPN 360
- URPN 370
- URPN 460
- VTPB 221
- VTPD 423
- WFSC 425.