ECOLOGICAL ENGINEERING

**Academic Year: 2014-2015**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>BEE 101 or ENGR 111</td>
<td>COMM 111/114 Speech</td>
<td>BEE 102 or ENGR 112</td>
</tr>
<tr>
<td>CH 231 + 261 Chemistry F, W, S (3)</td>
<td>CH 232 + 262 Chemistry W, S (5)</td>
<td>CH 233 + 263 Chemistry S (5)</td>
</tr>
<tr>
<td>WR 121 English Composition F, W, S (3)</td>
<td>Lifetime Fitness e.g. HHS 231 + Lab. F, W, S (3)</td>
<td>PH 211 Physics w/ Calculus F, W, S (4)</td>
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</tbody>
</table>

**SECOND YEAR**

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<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>BI 211 Principles of Biology F (4)</td>
<td>BI 212 Principles of Biology W (4)</td>
<td>BI 213 Principles of Biology S (4)</td>
</tr>
<tr>
<td>MTH 256 Differential Equations F, W, S (4)</td>
<td>BEE 221 EcoE Fundamentals W (3)</td>
<td>PH 213 Physics w/ Calculus W, S (4)</td>
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Shaded courses are required by the college prior to admission to the Professional Engineering Program.

Shaded courses are additional prerequisites for third-year courses.

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Additional courses not requiring admission to the Professional Engineering Program

**BI 370**
Ecology
F, W, S (3)

**AREC 205**
Intro to Environ. Econ. And Policy
F, W, S (3)

**Perspectives**
Cultural Diversity
F, W, S (3)

**Perspectives**
Literature & Arts
F, W, S (3)

**Synthesis**
Contemporary Global Issues
F, W, S (3)

**Difference, Power & Discrimination**
F, W, S (3)

**Ethics (pick 1)**

**IE 380**
The Responsible Engineer
W (3)

**IE 380**
The Responsible Engineer
W (3)

**PHL 205**
Ethics
F, W, S (4)

**Perspectives**
Western Culture
F, W, S (3)

**Science, Technology and Society**
F, W, S (3)

**NOTES:**

1. Students must complete 1 ethics course: IE 380 or PHL 205.
   a. IE 380 meets the OSU Baccalaureate Core requirement for Science, Technology, and Society.
   b. PHL 205 meets the OSU Baccalaureate Core requirement for Western Culture.
2. ST 421 may be substituted for ST 314. However, this requires that ST 422 be taken as an upper division science elective.
3. MTH 306 – Matrix and Power Series Methods (4), includes content covered in MTH 253 – Infinite Series (4) and MTH 341 – Linear Algebra (3) or equivalent.
4. Credits to graduate = 192.

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