**ECOLOGICAL ENGINEERING**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td><strong>BEE 101 or ENGR 111</strong> (F 3)</td>
<td><strong>COMM 111/114</strong> (F, W, S 3)</td>
<td><strong>BEE 102 or ENGR 112</strong> (S 3)</td>
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<tr>
<td><strong>CH 231 + 261</strong> (Chemistry) (F, W 3)</td>
<td><strong>CH 232 + 262</strong> (Chemistry) (W, S 5)</td>
<td><strong>CH 233 + 263</strong> (Chemistry) (S 3)</td>
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<tr>
<td><strong>MTH 251</strong> (Differential Calculus) (F, W, S 4)</td>
<td><strong>MTH 252</strong> (Integral Calculus) (F, W, S 4)</td>
<td><strong>MTH 254</strong> (Vector Calculus) (F, W, S 4)</td>
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<tr>
<td><strong>WR 121</strong> (English Composition) (F, W, S 3)</td>
<td><strong>Lifetime Fitness</strong> (e.g. HHS 231 + Lab.) (F, W, S 3)</td>
<td><strong>PH 211</strong> (Physics w/ Calculus) (F, W, S 4)</td>
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**SECOND YEAR**

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<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td><strong>BI 211</strong> Principles of Biology (F 4)</td>
<td><strong>BI 212</strong> Principles of Biology (W 4)</td>
<td><strong>BI 213</strong> Principles of Biology (S 4)</td>
</tr>
<tr>
<td><strong>SOIL 205</strong> Soil Science (F, W, S 4)</td>
<td><strong>ENGR 211</strong> Statics (F, W, S 3)</td>
<td><strong>ENGR 213</strong> Strength of Materials (F, W, S 3)</td>
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<tr>
<td><strong>MTH 252</strong> (Co-Req)</td>
<td><strong>MTH 254</strong></td>
<td><strong>MTH 256</strong></td>
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<tr>
<td><strong>BI 211</strong> (MTH 254 Co-Req)</td>
<td><strong>PH 213</strong> (Physics w/ Calculus) (W, S 4)</td>
<td><strong>ST 314</strong> (Statistics for Engineers) (F, W, S 3)</td>
</tr>
<tr>
<td><strong>PH 212</strong> (MTH 254 Co-Req)</td>
<td><strong>PH 214</strong></td>
<td><strong>ATS 210</strong> Intro to Atmospheric Science (F, W, S 3)</td>
</tr>
<tr>
<td><strong>WR 121</strong> (MTH 254)</td>
<td><strong>WR 327</strong> (Technical Report Writing) (F, W, S 3)</td>
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</table>

- 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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ECOLOGICAL ENGINEERING

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)

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.