ECOLOGICAL ENGINEERING (Recommended)

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEE 101</td>
<td>COMM 111/114</td>
<td>BEE 102</td>
</tr>
<tr>
<td>or ENGR 111</td>
<td>or ENGR 112</td>
<td>or ENGR 112</td>
</tr>
</tbody>
</table>

Academic Year: 2016-2017

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 211</td>
<td>BI 212</td>
<td>BI 213</td>
</tr>
<tr>
<td>Principles of Biology</td>
<td>Principles of Biology</td>
<td>Principles of Biology</td>
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</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEE 221</td>
<td>ENGR 213</td>
<td>ENGR 211</td>
</tr>
</tbody>
</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.

1 yr HS Chem or Equiv.

1 yr Chemistry.

MTH 112 or Equiv.

MTH 251
Differential Calculus

MTH 252
Integral Calculus

MTH 254
Vector Calculus

MTH 256
Differential Equations

ENGR 211
Statics

BEE 221
EcoE Fundamentals

ENGR 213
Strength of Materials

PH 211
Physics w/ Calculus

PH 212
Physics w/ Calculus

PH 213
Physics w/ Calculus

ST 314
Statistics for Engineers

MTH 306
Matrix & Power Series Methods

BEE 222
EcoE Computation

WR 121
English Composition

Lifetime Fitness
e.g. HHS 231 + Lab.

Rev. 5/2015
# ECOLOGICAL ENGINEERING (Proposed)

## Additional courses not requiring admission to the Professional Engineering Program

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 370</td>
<td>Ecology</td>
</tr>
<tr>
<td>SOIL 205/206</td>
<td>Soil Science</td>
</tr>
<tr>
<td>ATS 320</td>
<td>The Changing Climate</td>
</tr>
<tr>
<td>AREC 250</td>
<td>Intro. Environ. Econ. &amp; Policy</td>
</tr>
<tr>
<td>ENGR 391</td>
<td>Engineering Economics</td>
</tr>
</tbody>
</table>

### Perspectives
- **Western Culture**
- **Cultural Diversity**
- **Literature & Arts**
- **Social Processes & Institutions**
- **Difference, Power & Discrimination**

### Synthesis
- **Global Issues**
- **Science Tech Soc**
- **GIS & Forest Engng. App.**
- **Engineering Elective**

### NOTES:

1. Starting Fall 2001, MTH 306 – Matrix and Power Series Methods (4), will replace MTH 253 – Infinite Series (4) (which is used for admission to the Professional Engineering Program) and MTH 341 – Linear Algebra (3) or equivalent.

2. ST 421 may be substituted for ST 314. However, this requires that ST 422 be taken as an upper division science elective.

3. OSU Baccalaureate Core requirement for a Biological Science course is met by BI 213.

4. OSU Baccalaureate Core Requirement for Synthesis – Science, Technology and Society is met by IE 380.

5. OSU Baccalaureate Core Requirement for Perspectives – Western Culture is met by PHL 205.

6. Credits to graduate = 192.