ECOLOGICAL ENGINEERING (Recommended)

FIRST YEAR

**Fall**
- BEE 101 (or ENGR 111)
  - F (3)
- CH 231/261
  - Chemistry
  - F,W (4/1)
- MTH 251
  - Differential Calculus
  - F,W,S (4)
- WR 121
  - English Composition
  - F,W,S (3)

**Winter**
- COMM 111/114
  - Speech
  - F,W,S (3)
- CH 232/262
  - Chemistry
  - W,S (4/1)
- MTH 252
  - Integral Calculus
  - F,W,S (4)
- HHS 231
  - + Lab
  - Lifetime Fitness
  - F,W,S (3)

**Spring**
- BEE 102 (or ENGR 112)
  - S (3)
- CH 233/263
  - Chemistry
  - F,S (4/1)
- MTH 254
  - Vector Calculus
  - F,W,S (4)
- PH 211
  - Physics w/ Calculus
  - F,W,S (4)

SECOND YEAR

**Fall**
- BI 211
  - Principles of Biology
  - F (4)
- ENGR 211
  - EcoE Fundamentals
  - W (3)
- MTH 256
  - Differential Equations
  - F,W,S (4)
- BI 211 & MTH 256
  - S (4)
- MTH 264 + MTH 265*
  - Intros to Matrix Algebra and Series
  - F, W, S (2+2)
- BEE 221
  - EcoE Computation
  - S (3)

**Winter**
- BI 212
  - Principles of Biology
  - W (4)
- ENGR 213
  - Strength of Materials
  - F,W,S (3)
- MTH 252
  - MTH 252 & MTH 254 (co)
- MTH 254
  - MTH 254
- CH 231/261
  - CH 231/261

**Spring**
- BI 213
  - Principles of Biology
  - S (4)
- BEE 222
  - EcoE Computation
  - S (3)
- PH 212
  - Physics w/ Calculus
  - F,W,S (4)
- PH 213
  - Physics w/ Calculus
  - F,W,S (4)
- Perspectives
  - F,W,S (3)
- ST 314
  - Statistics for Engineers
  - F,W,S (3)

Notes:
1. F,W,S: Represents the term the course is offered (Fall, Winter, Spring)
2. (): Represents the credits of the course
3. Arrows: Represents prerequisites and co-requisites for that course
4. * MTH 254 + MTH 265 was formerly offered as MTH 306

Credits to graduate = 192

Updated: 3/28/19
<table>
<thead>
<tr>
<th>Course</th>
<th>Term</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BEE 320 Systems Anal. Model.</td>
<td>F (4)</td>
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<td>BEE 322 EcoE Thermo &amp; Transfer Proces W (4)</td>
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<td>BEE 311 Fluid Mechanics F (4)</td>
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<td>BEE 312 Ecohydrodynamics W (4)</td>
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<td>BI 370 Ecology F,W,S (3)</td>
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<td>FE 208 Forest Surveying F (4)</td>
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<td>ENGR 391 Eng. Econ F,W,S (3)</td>
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<tr>
<td>BI 211, BI 212, &amp; BI 213</td>
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<tr>
<td>PH 211, MTH 254, &amp; ENGR 211</td>
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<td>MTH 112</td>
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<tr>
<td>BI 211, BI 212, &amp; BI 213</td>
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<tr>
<td>SOIL 205/206 Principles of Soil Science F,W,S (3/1)</td>
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<td>Synthesis F,W,S (3)</td>
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**Notes:**
1. F,W,S: Represents the term the course is offered (Fall, Winter, Spring)
2. (): Represents the credits of the course
3. Arrows: Represents prerequisites and co-requisites for that course, all 300- and 400-level engineering courses require admission to pro-school.
4. Must take a minimum of 23 credits of upper division science and engineering electives (min. 10 "non-blanket" engineering and min. “non-blanket” 9 science)
5. OSU Baccalaureate Core Requirement for Synthesis – Science, Technology and Society is met by IE 380 and Perspectives – Western Culture is met by PHL 205.