# Academic Year: 2018-2019

## FIRST YEAR

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>BEE 101 (or ENGR 111)</td>
<td>Principles of Design Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CH 231/261</td>
<td>Chemistry</td>
<td>4/1</td>
</tr>
<tr>
<td></td>
<td>MTH 251</td>
<td>Differential Calculus</td>
<td>4</td>
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<tr>
<td></td>
<td>WR 121</td>
<td>English Composition</td>
<td>3</td>
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<tr>
<td>Winter</td>
<td>COMM 111/114</td>
<td>Speech</td>
<td>3</td>
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<tr>
<td></td>
<td>CH 232/262</td>
<td>Chemistry</td>
<td>4/1</td>
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<tr>
<td></td>
<td>MTH 252</td>
<td>Integral Calculus</td>
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<tr>
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<td>HHS 231</td>
<td>Lifetime Fitness + Lab</td>
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<tr>
<td>Spring</td>
<td>BEE 102 (or ENGR 112)</td>
<td>Principles of Design Engineering</td>
<td>3</td>
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<tr>
<td></td>
<td>CH 233/263</td>
<td>Chemistry</td>
<td>4/1</td>
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<tr>
<td></td>
<td>MTH 254</td>
<td>Vector Calculus</td>
<td>4</td>
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<tr>
<td></td>
<td>PH 211</td>
<td>Physics w/ Calculus</td>
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## SECOND YEAR

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>BEE 221</td>
<td>Principles of Design Engineering</td>
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<tr>
<td></td>
<td>MTH 256</td>
<td>Differential Equations</td>
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<td></td>
<td>PH 212</td>
<td>Physics w/ Calculus</td>
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<tr>
<td></td>
<td>BI 211</td>
<td>Principles of Biology</td>
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<tr>
<td></td>
<td>ENGR 211</td>
<td>Statics</td>
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<td></td>
<td>PHL 205</td>
<td>Ethics</td>
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<tr>
<td>Winter</td>
<td>BEE 222</td>
<td>EcoE Computation</td>
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<td>MTH 306</td>
<td>Matrix &amp; Power Series Methods</td>
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<td>ST 314</td>
<td>Statistics for Engineers</td>
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<td>Spring</td>
<td>BEE 111</td>
<td>Manufacturing Electronics</td>
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<td>BI 213</td>
<td>Principles of Biology</td>
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<td>MTH 254</td>
<td>Statics</td>
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<tr>
<td></td>
<td>ENGR 213</td>
<td>Strength of Materials</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
4. Shaded courses are required prior to admission to the Professional Program

Credits to graduate = 192

Updated: 7/16/18
Academic Year: 2018-2019

THIRD YEAR

**Fall**
- **BEE 320** Systems Anal. Model. (F 4)
- **BEE 311** Fluid Mechanics (F 4)
- **FE 208** Forest Surveying (F 4)
- **BI 370** Ecology (F, W, S 3)
- **Synthesis** (F, W, S 3)

**Winter**
- **BEE 322** EcoE Thermo & Transfer Process (W 4)
- **FE 257** GIS & Forest Eng. App. (F, W 3)
- **SOIL 205/206** Principles of Soil Science (F, W, S 3/1)
- **Perspectives** (F, W, S 3)
- **BI 211, BI 212, BI 213**

**Spring**
- **BEE 361** EcoE Lab Course (S 3)
- **AEC 250** Intro. Environ. Econ. & Policy (F, W, S 3)
- **ENGR 391** Eng. Econ (F, W, S 3)
- **Diff., Power & Discrim.** (F, W, S 3)
- **Perspectives** (F, W, S 3)

FOURTH YEAR

**Fall**
- **BEE 320** Systems Anal. Model. (F 4)
- **BEE 322** EcoE Thermo & Transfer Process (W 4)
- **BEE 361** EcoE Lab Course (S 3)
- **BEE 469** EcoE Design I (F 4)
- **BEE 470** EcoE Design II (W 4)
- **BEE 415** Professional Dev. Seminar (F 1)
- **BEE 468** Bioremediation (W 4)
- **BEE 458** Nonpoint Source Pollution (S 3)
- **Engineering Elective** (F, W, S 3-4)
- **Science Elective** (F, W, S 3-4)
- **Synthesis** (F, W, S 3)

**Winter**
- **BEE 312** Ecohydraulics (W 4)
- **AEC 250** Intro. Environ. Econ. & Policy (F, W, S 3)
- **BEE 313** Ecohydrology (S 4)
- **BEE 415** Professional Dev. Seminar (F 1)
- **BEE 468** Bioremediation (W 4)
- **Engineering Elective** (F, W, S 3-4)
- **Science Elective** (F, W, S 3-4)
- **Engineering Elective** (F, W, S 3-4)
- **Science Elective** (F, W, S 3-4)

**Spring**
- **BEE 311** Fluid Mechanics (F 4)
- **FE 257** GIS & Forest Eng. App. (F, W 3)
- **AEC 250** Intro. Environ. Econ. & Policy (F, W, S 3)
- **BEE 312** Ecohydraulics (W 4)
- **BEE 313** Ecohydrology (S 4)
- **BEE 469** EcoE Design I (F 4)
- **BEE 470** EcoE Design II (W 4)
- **BEE 415** Professional Dev. Seminar (F 1)
- **BEE 468** Bioremediation (W 4)
- **Engineering Elective** (F, W, S 3-4)
- **Science Elective** (F, W, S 3-4)
- **Synthesis** (F, W, S 3)
- **Perspectives** (F, W, S 3)
- **Perspectives** (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, 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.