# Industrial Engineering

## 2017-2018 Catalog

**122 Total Credits**

### First Year

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
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<tbody>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>I E 148 (Engineering Problems)</td>
<td>Math 166 (Calculus II)</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>SSH Elective</td>
<td>Phys 221 (Classical Physics I)</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Math 165 (Calculus I)</td>
<td>Engl 150 (Critical Think &amp; Comm)</td>
</tr>
<tr>
<td>4</td>
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<tr>
<td>Chem 167 (Chemistry I)</td>
<td>SSH Elective</td>
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<tr>
<td>R</td>
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<tr>
<td>Engr 101 (Engr Orientation)</td>
<td>I E 101 (I E Profession)</td>
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**14 Total Credits**

### Sophomore Year

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Semester 4</th>
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<tbody>
<tr>
<td>4</td>
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<tr>
<td>Math 265 (Calculus III)</td>
<td>Math 267 (Differential Equations)</td>
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<tr>
<td>I E 248 (Manufacturing)</td>
<td>I E 271 (Applied Ergonomics)</td>
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<tr>
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<tr>
<td>Mat E 273 (Prin of Materials E)</td>
<td>I E 222 (Methods for System Imprvmts)</td>
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<tr>
<td>Phys 222 (Classical Physics II)</td>
<td>Engl 250 (WOVE Comp)</td>
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**18 Total Credits**

### Junior Year

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Semester 6</th>
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<tr>
<td>3</td>
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<tr>
<td>I E 305 (Engineering Economics)</td>
<td>I E 348 (Solidification Processes)</td>
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<tr>
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<tr>
<td>I E 341 (Production Systems)</td>
<td>I E 361 (Quality Control)</td>
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<tr>
<td>I E 312 (Optimization)</td>
<td>Engineering Topic Elective</td>
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<tr>
<td>3</td>
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<tr>
<td>E M 274 (Statics)</td>
<td>SSH Elective</td>
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<tr>
<td>Sp Cm 212 (Public Speaking)</td>
<td>E E 442 (Introduction to Circuits)</td>
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**15 Total Credits**

### Senior Year

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Semester 8</th>
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<tbody>
<tr>
<td>4</td>
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<tr>
<td>I E 413 (Stochastic Modeling)</td>
<td>I E 441 (IE Design)</td>
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<tr>
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<tr>
<td>Engl 314 (Tech Communication)</td>
<td>I E 448 (Manufacturing Systems)</td>
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<td>M E 231 (Thermodynamics)</td>
<td>Focus Elective</td>
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<tr>
<td>Focus Elective</td>
<td>Management Elective</td>
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<tr>
<td>SSH Elective</td>
<td>Engineering Topic Elective</td>
</tr>
</tbody>
</table>

**16 Total Credits**

**Shading indicates Basic Program courses.**