

## Sample Curriculum

<p><b>Freshman</b> Fall semester</p> <ol style="list-style-type: none"> <li>1. Math 1371 (4 cr)</li> <li>2. Phys 1301W (4 cr)</li> <li>3. Writ 1301 (4 cr)</li> <li>4. Lib Ed (3 cr)</li> </ol> <p>Total Credits: 15 or 16</p>	<p><b>Freshman</b> Spring semester</p> <ol style="list-style-type: none"> <li>1. Math 1372 (4 cr)</li> <li>2. Chem 1061/65 (4 cr)</li> <li>3. Phys 1302W (4 cr)</li> <li>4. <b>IE 1011 Intro to ISyE</b> (4 cr)</li> </ol> <p>Total Credits: 16</p>	<p><b>Sophomore</b> Fall semester</p> <ol style="list-style-type: none"> <li>1. Math 2374 (4 cr)</li> <li>2. Csci 1113 (4 cr)</li> <li>3. Lib Ed (3 cr)</li> <li>4. <b>IE 2011 Prob Models &amp; Statistics</b> (4 cr)</li> </ol> <p>Total Credits: 15 or 16</p>	<p><b>Sophomore</b> Spring semester</p> <ol style="list-style-type: none"> <li>1. Math 2372 (4 cr)</li> <li>2. <b>IE 2021 Engg Econ</b> (4 cr)</li> <li>3. Biol 1009 (4 cr)</li> <li>4. Lib Ed (3 cr)</li> </ol> <p>Total Credits: 15 or 16</p>
<p><b>Junior</b> Fall semester</p> <ol style="list-style-type: none"> <li>1. <i>IE 3553 Simulation</i> (4 cr)</li> <li>2. <b>IE 3011 Optimization I</b>(4 cr)</li> <li>3. Econ 3101 (4 cr)</li> <li>4. Tech Elec I (4 cr)</li> </ol> <p>Total Credits: 16</p>	<p><b>Junior</b> Spring semester</p> <ol style="list-style-type: none"> <li>1. <b>IE 3021 Stoc Models</b> (4 cr)</li> <li>2. <i>IE 3522 Quality Engg</i> (4 cr)</li> <li>3. <i>IE 4551 Prod Planning</i> (4 cr)</li> <li>4. Mktg 3001 (4 cr)</li> </ol> <p>Total Credits: 16</p>	<p><b>Senior</b> Fall Semester</p> <ol style="list-style-type: none"> <li>1. <b>IE 4011 Optimization II</b> (4 cr)</li> <li>2. IE 4511 Human Fac (4 cr)</li> <li>1. IE 4541W Proj Mgmt (4 cr)</li> <li>3. Lib Ed (3 cr)</li> </ol> <p>Total Credits: 15 or 16</p>	<p><b>Senior</b> Spring semester</p> <ol style="list-style-type: none"> <li>1. Tech Elec II (4 cr)</li> <li>2. <b>IE 4041W Sen Design</b> (4 cr)</li> <li>3. Tech Elec III (4 cr)</li> <li>4. Lib Ed (3 cr)</li> </ol> <p>Total Credits: 15 or 16</p>

### Notes:

- W indicates a writing intensive course.
- Bold font indicates a new course.
- Italics font indicates a revised existing course.
- Total Credits = 123 – 128
- Math and science credits = 32
- Industrial Engineering credits = 48 ( 12 in LD and 36 in UD)
- There are 5 technical electives, of which two are specified. These are ECON 3101 and Mktg 3001. Technical Electives could consist of existing IE 5xxx courses.
- Econ 3101 requires first-year microeconomics course as a prerequisite. Most students take that course as part of their Lib Ed requirements.
- Transfer students who have missed the Writing Intensive or Lib Ed requirements can meet these requirements by choosing appropriate Technical Electives and Lib Ed courses in Junior and Senior years.