### BEng in Industrial Engineering and Engineering Management

#### Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 1231</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>Calculus IA</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1020</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>COMP 1021</td>
<td>Introduction to Programming and Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1024</td>
<td>Calculus IB</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1021</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1022</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>COMP 2011</td>
<td>Introduction to Android</td>
<td>3</td>
</tr>
<tr>
<td>COMP 2012H</td>
<td>Introduction to Web Development</td>
<td>3</td>
</tr>
<tr>
<td>EE 1010</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>EE 2010</td>
<td>Electrical Circuits</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1012</td>
<td>Matrix Algebra and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1013</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1020</td>
<td>Calculus IV</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1023</td>
<td>Cooperative Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1024</td>
<td>Managerial Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required credits for Major Requirements:** 51

#### Additional Requirements

- **University CORE (Cumulative):**
  - COMP 1230: Academic Writing (Core) | 3 | 1 |
  - ECON 1020: Microeconomics (Core) | 3 | 1 |
  - COMP 1029P: Introduction to Programming and Data Structures (Core) | 3 | 1 |
  - COMP 1021: Introduction to Android (Core) | 3 | 1 |

**Required credits for University CORE:** 30

**Sub-total for University CORE:** 30

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**Remarks:**
- *Courses offered in winter term* (course code prefix)
- *Offering Dept.*
- *Required credits for School Requirements* (course code prefix)
- *Required credits for Major Requirements Courses and Electives* (course code prefix)
- *Major Required Courses and Electives* (course code prefix)
- *Required credits for University CORE* (course code prefix)
- *Sub-total for University CORE* (course code prefix)

**Notes:**
- Certain courses fulfill multiple requirements.
- Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements.
- For up-to-date information on course offerings and instructors, students should check out the respective School and Department.