## BEng in Mechanical Engineering

### Major Requirements

#### Engineering Fundamental Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1003</td>
<td>Accelerated Calculus IA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 1012</td>
<td>Calculus IB</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 1013</td>
<td>Calculus IA</td>
<td>3</td>
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<tr>
<td>MATH 1020</td>
<td>Calculus and Linear Algebra</td>
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#### ECON Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2103</td>
<td>Microeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 2113</td>
<td>Principles of Microeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 2123</td>
<td>Accelerated Calculus IB</td>
<td>3</td>
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</table>

#### MECH Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MECH 1990</td>
<td>Industrial Training</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MECH 2020</td>
<td>Manufacturing Processes and Systems</td>
<td>3</td>
<td></td>
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<tr>
<td>MECH 2040</td>
<td>Control Principles</td>
<td>3</td>
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</tr>
<tr>
<td>MECH 2060</td>
<td>Manufacturing Processes and Systems</td>
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</tr>
<tr>
<td>MECH 2310</td>
<td>Thermodynamics</td>
<td>3</td>
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<tr>
<td>MECH 2320</td>
<td>Heat Transfer</td>
<td>3</td>
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<tr>
<td>MECH 2330</td>
<td>Statics and Dynamics</td>
<td>3</td>
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</tr>
<tr>
<td>MECH 2350</td>
<td>General Physics I with Calculus</td>
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<tr>
<td>MECH 2351</td>
<td>General Physics I</td>
<td>3</td>
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#### Notes:
- ECON 2103 OR ECON 2113
- MECH3300 OR MECH3420 OR MECH3520 OR MECH3710
- PHYS1112 OR PHYS1312
- MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023
- MATH 2011 OR MATH 2111 OR MATH 2121

### Required credits for Major Requirements Courses and Electives

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Winter</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>18</td>
<td>18</td>
<td>36</td>
</tr>
<tr>
<td>Year 2</td>
<td>17</td>
<td>13</td>
<td>30</td>
</tr>
<tr>
<td>Year 3</td>
<td>17</td>
<td>17</td>
<td>34</td>
</tr>
<tr>
<td>Year 4</td>
<td>17</td>
<td>17</td>
<td>34</td>
</tr>
</tbody>
</table>

### Additional Requirements

#### Requirements for Dual Degree Program

1. **Required Courses**
   - Accelerated Calculus IA
   - Biophysics I

2. **Electives**
   - Biophysics II

#### Sub-total for University CORE

<table>
<thead>
<tr>
<th>Year</th>
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<th>18</th>
<th>15</th>
<th>19</th>
<th>16</th>
<th>15</th>
<th>14</th>
<th>Total</th>
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</thead>
</table>

## Notes:
- Courses offered in winter term
- Courses offered in summer term
- Courses offered in both terms
- Courses offered in either term

### BBA in Economics

#### School Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1001</td>
<td>Introduction to Computing with Java</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 1002</td>
<td>Introduction to Econometrics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 2103</td>
<td>Microeconomics</td>
<td>3</td>
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<td>19</td>
<td>19</td>
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<tr>
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<td>Year 4</td>
<td>17</td>
<td>17</td>
<td>34</td>
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### Additional Requirements

#### University CORE

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINS 1020</td>
<td>Business and Management Information</td>
<td>3</td>
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<tr>
<td>CINS 1040</td>
<td>Introduction to Programming</td>
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#### Sub-total for University CORE

<table>
<thead>
<tr>
<th>Notes:</th>
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<tr>
<td>1</td>
</tr>
<tr>
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<tr>
<td>5</td>
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<td>6</td>
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</table>

**Remarks on coursework:**
- Students must take all major courses as specified for the program. Students should consult the School of Engineering and Business Management for any additional information on course offering and scheduling. Students should check if the courses are available in the respective School and Department.