## BME UNDERGRADUATE CURRICULUM

### Medical Devices 187 units

<table>
<thead>
<tr>
<th>FRESHMAN</th>
<th>units</th>
<th>Winter</th>
<th>units</th>
<th>Spring</th>
<th>units</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>MAT 21A Calculus</td>
<td>4</td>
<td>MAT 21B Calculus</td>
<td>4</td>
<td>MAT 21C Calculus</td>
</tr>
<tr>
<td>CHE 2A</td>
<td>General Chemistry</td>
<td>5</td>
<td>CHE 2B General Chemistry</td>
<td>5</td>
<td>CHE 2C General Chemistry</td>
</tr>
<tr>
<td>BIM 1</td>
<td>Intro to BME</td>
<td>2</td>
<td>BIS 2A Intro to Biology</td>
<td>5</td>
<td>PHY 9A Classical Physics</td>
</tr>
<tr>
<td></td>
<td>Lower Division Composition</td>
<td>4</td>
<td>GE elective</td>
<td></td>
<td>GE elective</td>
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</table>

### SOPHOMORE

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>MAT 21D</td>
<td>Vector Analysis</td>
<td>4</td>
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<tr>
<td>CHE 8A</td>
<td>Organic Chemistry</td>
<td>2</td>
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<tr>
<td>PHY 9B</td>
<td>Classical Physics</td>
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<tr>
<td>ENG 6</td>
<td>MATLAB</td>
<td>4</td>
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### JUNIOR

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>BIM 105</td>
<td>Probability and Stats for BME</td>
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<tr>
<td>BIM 116</td>
<td>Physiology</td>
<td>5</td>
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<tr>
<td>SE: ECS 30</td>
<td>4</td>
<td>EE: ENG 102 Dynamics</td>
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<td></td>
<td>Upper Division Composition Course=4 units, Exam=0 units</td>
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### SENIOR

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>BIM 110L</td>
<td>BME Senior Design Lab</td>
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<tr>
<td>BIM 111</td>
<td>Biomedical Instrumentation Lab</td>
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<tr>
<td>EE: BIM 171</td>
<td>Clinical Applications for Biomedical Device Design</td>
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<tr>
<td>SE: ECS 40</td>
<td>4</td>
<td>ENG 190 Professional Responsibility Engineers</td>
</tr>
</tbody>
</table>

### Additional medical device eng. electives:
- BIM 189C – Design of Experiments (F), BIM 189C Materials Science (W), BIM 189C Microcontroller Lab-1 unit (F), and Metalworking Lab-1 unit (W).
- EMS 147 Polymer Materials Science-3 units (S); EMS 180 Materials in Engineering Design (S)

Use Summer Sessions to lighten this course load

September 2017