### Sample Course Sequence for the BME Major*

<table>
<thead>
<tr>
<th>Fall, Freshman Year</th>
<th>credits</th>
<th>Spring, Freshman Year</th>
<th>credits</th>
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</thead>
<tbody>
<tr>
<td>AMS 151 Calc I</td>
<td>4</td>
<td>AMS 161 Calc II</td>
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</tr>
<tr>
<td>CHE 131 Chem I lecture</td>
<td>4</td>
<td>CHE 132 Chem II lecture</td>
<td>4</td>
</tr>
<tr>
<td>PHY 131/133</td>
<td>4</td>
<td>PHY 132/134</td>
<td>4</td>
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<tr>
<td>BME 100 Introduction to BME</td>
<td>3</td>
<td>MEC 203 Computer-Aided Drafting II</td>
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<tr>
<td>DEC A WRT 102</td>
<td>3</td>
<td>ESG 111 C Programming</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Seminar</td>
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### Total 19

<table>
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<tr>
<th>Fall, Sophomore Year</th>
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<tbody>
<tr>
<td>AMS 261 Calc III</td>
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<td>AMS 361 Calc IV</td>
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<tr>
<td>DEC F**</td>
<td>3</td>
<td>BME 212 BME Res Fundamentals**</td>
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<tr>
<td>BIO 202 Molecular &amp; Cellular Biology</td>
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<td>BME 304 Genetic Engineering DEC H</td>
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<tr>
<td>BIO 204 Laboratory, 2 credits</td>
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<td>DEC B</td>
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<td>MEC 260 Engineering Statics</td>
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<td>MEC 262 Engineering Dynamics</td>
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<tr>
<td>ESE 271 Electrical Circuit Analysis I</td>
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<td>CHE 134 Chem III lab for pre-med or pre-dental</td>
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### Total 19

<table>
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<tbody>
<tr>
<td>AMS 210 Linear Algebra</td>
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<td>BME 301 Bioelectricity</td>
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<tr>
<td>AMS 310 Probab Stat</td>
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<td>BME 305 Biofluids</td>
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<tr>
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<tr>
<td>Technical Elective</td>
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<td>BME 300 - Writing in BME</td>
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<td>BIO 203 for pre-med or pre-dental</td>
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<td>DEC G</td>
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<td>DEC 205 Lab for pre-med or pre-dental</td>
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### Total 17

<table>
<thead>
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<th>Fall, Senior Year</th>
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</tr>
<tr>
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<td>3</td>
<td>DEC I or DEC J, one is SBS the other Hum</td>
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</tr>
</tbody>
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### Total 17

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*modifications are shown for pre-medical or pre-dental students; further modifications are available for WISE and Honors College students.

**BME 212 can be taken in either the fall or spring semester, swapping with DEC F**