# BME Degree Requirement (Aerospace Concentration) for students entering 2007

**1st Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 101</td>
<td>Introduction to Mechanical Engineering</td>
<td>0</td>
</tr>
<tr>
<td>EGR 101</td>
<td>Introduction to Engineering Design</td>
<td>2</td>
</tr>
<tr>
<td>CHM 123/123L</td>
<td>General Chemistry &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101/102</td>
<td>English Composition I, II (or ENG 114 or 198)</td>
<td>6</td>
</tr>
<tr>
<td>HST ___</td>
<td>History (HST 103 or 198)</td>
<td>3</td>
</tr>
<tr>
<td>MTH 168/169</td>
<td>Analytic Geometry &amp; Calculus I, II</td>
<td>8</td>
</tr>
<tr>
<td>MEE 104L</td>
<td>Computer Graphics I</td>
<td>1</td>
</tr>
<tr>
<td>PHY 206</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHL 103</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>REL 103</td>
<td>Introduction to Religion</td>
<td>3</td>
</tr>
<tr>
<td>CMM 1__</td>
<td>Fundamentals of Oral Communication</td>
<td>1</td>
</tr>
</tbody>
</table>

**2nd Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 104L</td>
<td>Computer Graphics I</td>
<td>1</td>
</tr>
<tr>
<td>PHY 207</td>
<td>General Physics II</td>
<td>3-0-3</td>
</tr>
</tbody>
</table>

**General Education Requirement**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 201</td>
<td>Mechanics I</td>
</tr>
<tr>
<td>MTH 218</td>
<td>Analytic Geometry &amp; Calculus III</td>
</tr>
<tr>
<td>MEE 225</td>
<td>Intro. to Flight</td>
</tr>
<tr>
<td>MEE 301</td>
<td>Thermodynamics I</td>
</tr>
<tr>
<td>MEE 227L</td>
<td>Computer Graphics II</td>
</tr>
<tr>
<td>EGM 202</td>
<td>Dynamics</td>
</tr>
<tr>
<td>MTH 219</td>
<td>Applied Differential Equations</td>
</tr>
<tr>
<td>EGM 303</td>
<td>Mechanics II</td>
</tr>
</tbody>
</table>

**3rd Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 308</td>
<td>Fluid Mechanics</td>
<td>3-0-3</td>
</tr>
<tr>
<td>MEE 312/312L</td>
<td>Engineering Materials I and Lab</td>
<td>3-3-4</td>
</tr>
<tr>
<td>MEE 314</td>
<td>Computational Methods</td>
<td>3-0-3</td>
</tr>
<tr>
<td>MEE 409</td>
<td>Aerospace Structures</td>
<td>3-0-3</td>
</tr>
<tr>
<td>PHY 208</td>
<td>Physics III</td>
<td>3-0-3</td>
</tr>
<tr>
<td>MEE 415</td>
<td>Professional Development Seminar I</td>
<td>1-0-0</td>
</tr>
</tbody>
</table>

**General Education Requirement**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 321</td>
<td>Theory of Machines</td>
</tr>
<tr>
<td>MEE 410 &amp; 410L</td>
<td>Heat Transfer and Thermo Fluids Lab</td>
</tr>
<tr>
<td>MEE 401</td>
<td>Aerodynamics</td>
</tr>
<tr>
<td>ECE 323 &amp; 323L</td>
<td>Basic Electronic Circuits &amp; Lab</td>
</tr>
</tbody>
</table>

**4th Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 341</td>
<td>Engineering Experimentation</td>
<td>1-4-3</td>
</tr>
<tr>
<td>MEE 425/431L</td>
<td>Aerospace Design/Multidisciplinary Des. I</td>
<td>3-3-4</td>
</tr>
<tr>
<td>MEE 439/440</td>
<td>Dynamic Systems and Controls Elective</td>
<td>4-0-4</td>
</tr>
<tr>
<td>MEE 415/416</td>
<td>Professional Development Seminar I/II</td>
<td>1-0-0</td>
</tr>
<tr>
<td>MEE 432L</td>
<td>Multidisciplinary Design II</td>
<td>2-6-4</td>
</tr>
<tr>
<td>MEE 460</td>
<td>Engineering Analysis</td>
<td>3-0-3</td>
</tr>
</tbody>
</table>

**General Education Requirement**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 415/416</td>
<td>Professional Development Seminar I/II</td>
</tr>
<tr>
<td>Open elective</td>
<td>2-3-3</td>
</tr>
<tr>
<td>MEE 432L</td>
<td>Multidisciplinary Design II</td>
</tr>
<tr>
<td>MEE 460</td>
<td>Engineering Analysis</td>
</tr>
</tbody>
</table>

1. **CMM 110, 111 or 112, and 113 are required.**