# BME Aerospace Concentration Degree Requirements for Students Entering 2013

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>FALL</th>
<th>SPRING</th>
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<tr>
<td><strong>FIRST YEAR</strong></td>
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</tr>
<tr>
<td>ENG 100</td>
<td>Writing Seminar I</td>
<td>3</td>
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<tr>
<td>PHL 103</td>
<td>Introduction to Philosophy</td>
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<tr>
<td>HST 103</td>
<td>History – West and World</td>
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<tr>
<td>CHM 123/123L</td>
<td>General Chemistry/Chemistry Lab</td>
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<tr>
<td>MTH 168/169</td>
<td>Analytic Geometry &amp; Calculus I, II</td>
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<tr>
<td>CMM 100</td>
<td>Principles of Oral Communication</td>
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<tr>
<td>REL 103</td>
<td>Introduction to Religion and Theological Studies</td>
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<tr>
<td>EGR 103</td>
<td>Engineering Innovation</td>
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<tr>
<td>PHY 206</td>
<td>General Physics I</td>
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<tr>
<td>MEE 104L</td>
<td>Computer Graphics I</td>
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<tr>
<td>EGR100/100</td>
<td>Enrichment Workshop</td>
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<td>MEE 101/101</td>
<td>Introduction to Mechanical Engineering</td>
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<td>(fall and spring placement may vary but all courses are to be taken)</td>
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<tr>
<td><strong>SECOND YEAR</strong></td>
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<tr>
<td>ENG 200</td>
<td>Writing Seminar II</td>
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<tr>
<td>EGR 201</td>
<td>Mechanics I</td>
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<tr>
<td>MEE 225</td>
<td>Introduction to Flight (will fulfill one Open Elective)</td>
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<tr>
<td>MTH 218</td>
<td>Analytic Geometry &amp; Calculus III</td>
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<td>MEE 227L</td>
<td>Computer Graphics II</td>
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<tr>
<td>EGR 202</td>
<td>Thermodynamics I</td>
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<td>MEE 200/200</td>
<td>Professional Development Seminar</td>
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<tr>
<td>EGR 203</td>
<td>Electrical and Electronic Circuits</td>
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<tr>
<td>ECE 201L</td>
<td>Circuits Analysis Laboratory</td>
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<td>EGM 303</td>
<td>Mechanics II</td>
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<tr>
<td>PHY 207</td>
<td>General Physics II</td>
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<td>MTH 219</td>
<td>Applied Differential Equations</td>
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<td>MEE 308</td>
<td>Fluid Mechanics</td>
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<td><strong>THIRD YEAR</strong></td>
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</tr>
<tr>
<td>SSC 200</td>
<td>CAP: Social Science</td>
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<tr>
<td>EGM 202</td>
<td>Dynamics</td>
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<tr>
<td>MEE 409</td>
<td>Aerospace Structures</td>
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<tr>
<td>MEE 314</td>
<td>Computational Methods</td>
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<tr>
<td>MEE Elective</td>
<td>MEE 413 or AEE 5XX (500 level courses require chair approval)</td>
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<tr>
<td>MEE 415</td>
<td>Professional Development Seminar I</td>
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<tr>
<td></td>
<td>CAP: Ethics</td>
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<tr>
<td>MEE 321</td>
<td>Theory of Machines</td>
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<td>MEE 312/312L</td>
<td>Engineering Materials I and Lab</td>
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<tr>
<td>MEE 401</td>
<td>Aerodynamics</td>
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<tr>
<td>MEE 410/410L</td>
<td>Heat Transfer/Thermo Fluids Lab</td>
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<td><strong>FOURTH YEAR</strong></td>
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<tr>
<td>MEE 440</td>
<td>Flight Vehicle Performance</td>
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<tr>
<td>MEE 341</td>
<td>Engineering Experimentation</td>
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<tr>
<td>MEE 431L</td>
<td>Multidisciplinary Des I</td>
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<td>MEE 425</td>
<td>Aerospace Design</td>
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<td>MEE 433</td>
<td>Project Management and Innovation</td>
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<td>CAP: History</td>
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<td>CAP: Faith/Diversity/Social Justice</td>
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<td>Open Elective</td>
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<tr>
<td>MEE 432L</td>
<td>Multidisciplinary Design II</td>
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<td>MEE 460</td>
<td>Engineering Analysis</td>
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### Common Academic Program

<table>
<thead>
<tr>
<th>Area</th>
<th>Course Number</th>
<th>CAP Gen Ed Requirement Fulfilled</th>
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<tbody>
<tr>
<td>Social Science</td>
<td>SSC 220</td>
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<tr>
<td>Ethics</td>
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<td>Practical Ethical Action + Advanced REL or PHL</td>
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<td>Arts</td>
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<td>History</td>
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<td>Advanced Historical Studies</td>
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<tr>
<td>Faith/Diversity/Social Justice</td>
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<td>Faith Traditions + Advanced REL or PHL + Diversity/Social Justice</td>
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