# Master of Engineering (Mechanical) – Semester 2 Start

## Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>S2</td>
<td>MECH ENG 7068</td>
<td>Applied Aerodynamics</td>
</tr>
<tr>
<td></td>
<td>MECH ENG 7111</td>
<td>Acoustics and Vibrations</td>
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<tr>
<td></td>
<td>ENG 7057</td>
<td>Communication &amp; Critical Thinking</td>
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<tr>
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<td>MATHS 7025</td>
<td>Research Methods and Statistics</td>
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## Year 2

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<tbody>
<tr>
<td>S1</td>
<td>MECH ENG 7070</td>
<td>Heat Transfer &amp; Thermodynamics</td>
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<td>MECH ENG 7067</td>
<td>Advanced Mechanics of Materials</td>
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<td></td>
<td>PROJMGNT 5021</td>
<td>Project Management Fundamentals</td>
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<tr>
<td></td>
<td>Mechanical Engineering Elective A (see elective table)</td>
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<tr>
<td>S2</td>
<td>ENG 7001A</td>
<td>Research Project Part A (6 units)</td>
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<td>ELEC ENG 7164</td>
<td>Business Management Systems</td>
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## Year 3

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<tr>
<td>S1</td>
<td>ENG 7001B</td>
<td>Research Project Part B (6 units)</td>
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<td>Mechanical Engineering Elective A (see elective table)</td>
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<td>Mechanical Engineering Elective A or B (see elective table)</td>
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### Core Courses

#### Aerospace Engineering Elective A

<table>
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<tr>
<th>Semester</th>
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<th>Course Title</th>
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<tbody>
<tr>
<td>S1</td>
<td>MECH ENG 7026</td>
<td>Advanced Topics in Fluid Mechanics</td>
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<td>MECH ENG 7059</td>
<td>Finite Element Analysis of Structures</td>
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<tr>
<td>S2</td>
<td>MECH ENG 7023</td>
<td>Fracture Mechanics (not offered 2022)</td>
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<td>MECH ENG 7030</td>
<td>Advanced Vibrations</td>
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#### Aerospace Engineering Elective B

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<tr>
<td>S1</td>
<td>MECH ENG 7020</td>
<td>Materials Selection &amp; Failure Analysis</td>
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<td>MECH ENG 7021</td>
<td>Combustion Technologies &amp; High Temperature Processes</td>
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<td>MECH ENG 7045</td>
<td>CFD for Engineering Applications</td>
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<td>MECH ENG 7080</td>
<td>Modern Control Systems</td>
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<td>MECH ENG 7164</td>
<td>Renewable Power Technologies</td>
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<td>S2</td>
<td>CHEM ENG 7047</td>
<td>Composite &amp; Multiphase Polymers (not offered 2022)</td>
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<td>ENG 7020</td>
<td>Complex Systems Engineering PG</td>
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<td>MECH ENG 7028</td>
<td>Advanced PID Control</td>
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<td>MECH ENG 7029</td>
<td>Air conditioning</td>
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<td>MECH ENG 7043</td>
<td>Stresses in Plates &amp; Shells (not offered 2022)</td>
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<td>MECH ENG 7044</td>
<td>Biomechanical Engineering</td>
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<td>SUM</td>
<td>MECH ENG 7025</td>
<td>Topics in Welded Structures</td>
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<td>MECH ENG 7027</td>
<td>Engineering Acoustics</td>
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### Notes

**Internship:** Master of Engineering students are required to complete 12 weeks of internship during the course of their studies, with a minimum of 6 weeks under the supervision of a professional engineer. Students who have previously completed an approved 12 week period of internship as part of their undergraduate studies at the University of Adelaide are exempt from this requirement. Internships are self-sourced and further information can be found on the Engineering Internships web page: [https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering](https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering).

**Program Rules:** For academic program rules please refer to the following website: [https://calendar.adelaide.edu.au/faculty/ecms](https://calendar.adelaide.edu.au/faculty/ecms)

**Information and Enrolment Advice:**

Ask ECMS

Email: askecms@adelaide.edu.au