**Credit Assessment and Study Plan**

Republic Polytechnic, Singapore  
Diploma in Materials Science  
–  
**UQ Bachelor of Engineering (Hons) (Mechanical Engineering)**

**Credit Granted (#12 Units):** ENGG1100, ENGG1200, MATH1051, MATH1052,  
*Unspecified Part B1 Introductory Elective (#4)*

**Recommended Study Plans**
Study plans are indicative only. Students must attend a Faculty academic advising session during Orientation Week to confirm their study plan. Any variations to the study plan must be discussed with an Academic Advisor, and approved by the Associate Dean (Academic).

**Study Plan: Semester 1, (March) Commencement, to be studied over 3.5 years**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Study Plan</th>
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</table>
| **March** | ENGG1300 Introduction to Electrical Systems  
ENGG1400 Engineering Mechanics: Statics & Dynamics  
ENGG1500 Engineering Thermodynamics  
Elective* |
| **July** | MECH2100 Machine Element Design  
MECH2210 Dynamics & Orbital Mechanics  
Elective* - |
| **March** | MATH2000 Calculus & Linear Algebra II  
MECH2300 Structures & Materials  
MECH2305 Introduction to Engineering Design  
MECH2410 Fundamentals of Fluid Mechanics |
| **July** | MECH2700 Engineering Analysis I  
MECH3100 Mechanical Systems Design  
MECH3410 Fluid Mechanics  
Elective* |
| **March** | MECH3300 Finite Element Method & Fracture Mechanics  
MECH3400 Thermodynamics & Heat Transfer  
MECH3600 Engineering Management & Communication  
MATH2010 (#1) Analysis of Ordinary Differential Equations & STAT2201 (#1) Analysis of Engineering & Scientific Data |
| **July** | MECH4500 (#4) Engineering Thesis (Year long project)  
MECH3200 Advanced Dynamics & Vibrations  
Elective*  
Elective* |
| **March** | METR3200 Introduction to Control Systems  
Elective* - |

* One of your electives must be MECH3250 or MECH3750 or MECH4460 or METR3100

Total: #52

*Continued over page…*
# Study Plan: Semester 2, (July) Commencement, to be studied over 3.5 years

<table>
<thead>
<tr>
<th>Semester</th>
<th>Study Plan</th>
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<tbody>
<tr>
<td><strong>July</strong></td>
<td><strong>ENGG1300</strong> Introduction to Electrical Systems</td>
</tr>
<tr>
<td><strong>March</strong></td>
<td><strong>MATH2000</strong> Calculus &amp; Linear Algebra II</td>
</tr>
<tr>
<td><strong>July</strong></td>
<td><strong>MECH2100</strong> Machine Element Design</td>
</tr>
<tr>
<td><strong>March</strong></td>
<td><strong>MECH3300</strong> Finite Element Method &amp; Fracture Mechanics</td>
</tr>
<tr>
<td><strong>July</strong></td>
<td><strong>MECH3100</strong> Mechanical Systems Design</td>
</tr>
<tr>
<td><strong>March</strong></td>
<td><strong>MECH4500 (#4)</strong> Engineering Thesis (Year long project)</td>
</tr>
<tr>
<td><strong>July</strong></td>
<td>Elective*</td>
</tr>
</tbody>
</table>

* One of your electives must be MECH3250 or MECH3750 or MECH4460 or METR3100

**Total: #52**