## MECHANICAL & AEROSPACE ENGINEERING

Undergraduate Program 2014 (Aeronautical Stream)

<table>
<thead>
<tr>
<th>SEM</th>
<th>MECHANICAL &amp; AEROSPACE (AERONAUTICAL) ENGINEERING UNDERGRADUATE PROGRAM 2014</th>
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</table>
| 1   | ENGG1100 Engineering Design  
MATH1051 Calculus & Linear Algebra I  
or MATH1050 (to make up for Maths C)  
ENGG1400 Engineering Mechanics: Statics and Dynamics  
Elective |
| 2   | ENGG1200 Engineering Modelling & Problem Solving  
MATH1052 Multivariate Calculus & ODEs  
ENGG1300 Introduction to Electrical Systems  
or MATH1051 (to make up for Sem 1)  
ENGG1500 Engineering Thermodynamics |
| 3   | MECH2305 Introduction to Engineering Design and Manufacturing  
MATH2000 Calculus & Linear Algebra II  
MECH2300 Structures and Materials  
MECH2410 Fundamentals of Fluid Dynamics  
Elective or ENGG1300 (to make up for Sem 2) |
| 4   | MECH2100 Machine Element Design  
MECH2700 Engineering Analysis I  
MECH2210 Intermediate Mechanical & Space Dynamics  
| 5   | MECH3600 Engineering Management & Communication  
MECH3300 Finite Element Method & Fracture Mechanics  
MECH3400 Thermodynamics & Heat Transfer  
STAT2201 Analysis of Eng & Sci Data  
MATH2010 Analysis of ODEs  
MATH2010 Analysis of ODEs |
| 6   | AERO3100* Aero Design & Manufacturing  
MECH3750 Engineering Analysis II  
MECH3200 Advanced Dynamics & Vibrations  
MECH3410 Fluid Mechanics |
| 7   | MECH4500 & MECH4501 Engineering Thesis  
or MECH4552 Major Design Project  
ENGG4000** Introduction to Systems Engineering  
METR4201 Introduction to Control Systems  
MECH4450* Aerospace Propulsion |
| 8   | MECH4011 Professional Engineering Project plus an Elective  
AERO4300** Aerospace Composites  
AERO4200** Flight Mechanics & Avionics  
Aero Elective |

*Compulsory Aerospace Courses  
**Aeronautical Stream Courses

### Important:
This study plan is a guide only for students commencing the Bachelor of Engineering (Mechanical and Aerospace Engineering Dual Major) program in 2014. Please note that all course selections must adhere to the Bachelor of Engineering (Mechanical and Aerospace Engineering Dual Major) course list outlined at UQ Courses and Programs. If you have any questions or concerns regarding your course selections, please speak with your Academic Advisor in the School of Mechanical and Mining Engineering. This is particularly important for first year courses where the semesters in which some courses can be taken depend on your studies prior to entering the BE program.