### MECHANICAL ENGINEERING UNDERGRADUATE PROGRAM

**SEM** | **MECHANICAL ENGINEERING UNDERGRADUATE PROGRAM**
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1 | ENGG1100 Engineering Design  
   MATH1051 Calculus & Linear Algebra I  
   ENGG1400 Engineering Mechanics: Statics and Dynamics  
   Elective
2 | ENGG1200 Engineering Modelling & Problem Solving  
   MATH1052 Multivariate Calculus & ODEs  
   ENGG1300 Introduction to Electrical Systems  
   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
4 | MECH2100 Machine Element Design  
   MECH2700 Engineering Analysis I  
   MECH2210 Intermediate Mechanical & Space Dynamics  
   Elective
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
6 | MECH3100 Mechanical Systems Design  
   MECH3200 Advanced Dynamics & Vibrations  
   MECH3410 Fluid Dynamics  
   Elective
7 | MECH4500 or MECH4501 Engineering Thesis  
   or MECH4552 Major Design Project  
   METR4201 Introduction to Control Systems  
   Elective
8 | ENGG4011 Professional Engineering Project plus an Elective  
   Elective  
   Elective  
   Elective

1Students must complete one of the following three courses as a compulsory elective:  
MECH3250 Engineering Acoustics  
METR3100 Sensors & Actuators  
MECH3750 Engineering Analysis I

**Important:** This study plan is a guide only for students commencing the Bachelor of Engineering (Mechanical Engineering Single Major) program in 2016. Please note that all course selections must adhere to the Bachelor of Engineering (Mechanical Engineering Single 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.