



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Mechanical Engineering

Bachelor of Engineering (Honours) and Master of



Recommended Study Plan

This study plan is a guide only for students commencing the Bachelor of Engineering (Hons) and Master of Engineering in Mechanical Engineering in 2020. Please note that all course selections must adhere to the program course list outlined at [UQ Courses and Programs](#). If you have any questions or concerns regarding your course selections, please speak with an [Academic Advisor](#) in the School of Mechanical and Mining Engineering.

February Commencement

SEM YEAR 1				
Sem 1 Feb	ENGG1100 Engineering Design	ENGG1400 Engineering Mechanics: Statics & Dynamics	MATH1051 Calculus & Linear Algebra I	ENGG1500 Engineering Thermodynamics
Sem 2 July	ENGG1200 Engineering Modelling & Problem Solving	MATH1052 Multivariate Calculus & ODEs	ENGG1300 Introduction to Electrical Systems	BE (Hons)/ME Elective (See Course List)
SEM YEAR 2				
Sem 3 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MECH2410 Fundamentals of Fluid Mechanics	MATH2000 Calculus & Linear Algebra II	MECH2300 Structures & Materials
Sem 4 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Engineering Analysis I	BE (Hons)/ME Elective (See Course List)
SEM YEAR 3				
Sem 5 Feb	MECH3300 Finite Element Method & Fracture Mechanics	MECH3400 Thermodynamics & Heat Transfer	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data
Sem 6 July	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	B3 or N Elective	B3 or N Elective
SEM YEAR 4				
Sem 7 Feb	MECH3600 Engineering Management & Communication	METR4201 Control Engineering 1	B3 or N Elective	B3 or N Elective
Sem 8 July	MECH3410 Fluid Mechanics	METR7203 Control Engineering 2	B3 or N Elective	B3 or N Elective
SEM YEAR 5				
Sem 9 Feb	ENGG7290 Engineering Placement Semester			
Sem 10 July	ENGG4900 Professional Practice and the Business Environment	ENGG7701 Engineering Grand Challenges	B3 or N Elective	B3 or N Elective

B0 Electives

[CHEM1090](#) Introductory Chemistry
[MATH1050](#) Mathematical Foundations
[PHYS1171](#) Physical Basis of Biological Systems

B3 Electives

[ENGY4000](#) Energy Systems
[MECH3250](#) Engineering Acoustics
[MECH3750](#) Engineering Analysis II
[METR3100](#) Control System Implementation

N Electives

[AERO4300](#) Aerospace Composites
[AERO4450](#) Aerospace Propulsion
[CHEE4302](#) Electrochemistry & Corrosion
[CHEE7601](#) Nanomaterials
[ENGG4103](#) Engineering Asset Management
[ENGY7210](#) Frontiers in Renewable Energy Technologies
[MATE7013](#) Advanced Manufacturing
[MATE7014](#) Advanced Materials Characterisation
[MATE7015](#) Additive Manufacturing
[MATE7016](#) Materials for Energy Conversion and Storage
[MECH6480](#) Computational Fluid Dynamics
[MECH7101](#) Design of Experiments

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July Commencement

SEM	YEAR 1				
Sem 1 July	ENGG1211 Engineering Design, Modelling & Problem Solving	MATH1051 Calculus & Linear Algebra I		ENGG1300 Introduction to Electrical Systems	ENGG1400 Engineering Mechanics: Statics & Dynamics
Summer Sem					
Sem 2 Feb	MECH2300 Structures & Materials	MECH2410 Fundamentals of Fluid Mechanics		ENGG1500 Engineering Thermodynamics	MATH1052 Multivariate Calculus & ODEs
SEM	YEAR 2				
Sem 3 July	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Engineering Analysis I		BE (Hons)/ME Elective (See Course List)	BE (Hons)/ME Elective (See Course List)
Sem 4 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2000 Calculus & Linear Algebra II		B3 or N Elective	BE (Hons)/ME Elective (See Course List)
SEM	YEAR 3				
Sem 5 July	MECH3200 Advanced Dynamics & Vibrations	MECH2100 Machine Element Design		B3 or N Elective	B3 or N Elective
Sem 6 Feb	MECH3300 Finite Element Method & Fracture Mechanics	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	METR4201 Control Engineering 1	B3 or N Elective
SEM	YEAR 4				
Sem 7 July	MECH3410 Fluid Mechanics	METR7203 Control Engineering 2		MECH3100 Mechanical Systems Design	ENGG7701 Engineering Grand Challenges
Sem 8 Feb	MECH3600 Engineering Management & Communication	MECH3400 Thermodynamics & Heat Transfer		B3 or N Elective	B3 or N Elective
SEM	YEAR 5				
Sem 9 July	ENGG7290 Engineering Placement Semester				
Sem 10 Feb	ENGG4900 Professional Practice and the Business Environment	B3 or N Elective		B3 or N Elective	

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