



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Mechanical Engineering

Bachelor of Engineering (Honours)



Recommended Study Plan

This study plan is a guide only for students commencing the Bachelor of Engineering (Hons) 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	B0, B1, B2 or B3 Elective	
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	B0, B1, B2 or B3 Elective	
SEM YEAR 3					
Sem 5 Feb	MECH3600 Engineering Management & Communication	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	MECH3410 Fluid Mechanics	B2 or B3 Elective	
SEM YEAR 4					
Sem 7 Feb	MECH4500 Engineering Thesis (or)	METR4201 Control Engineering 1	B2 or B3 Elective	B2 or B3 Elective	
Sem 8 July	MECH4552 Major Design Project	ENGG4900 Professional Practice & the Business Environment	B2 or B3 Elective	B3 Elective	

B0 Electives

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

B1 Electives

[CHEM1100](#) Chemistry 1
[CSSE1001](#) Introduction to Software Engineering
[ENGG1600](#) Introduction to Research Practices
[PHYS1002](#) Electromagnetism & Modern Physics

B3 Electives

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

B2 Electives

[AERO4300](#) Aerospace Composites
[AERO4450](#) Aerospace Propulsion
[AERO4470](#) Hypersonics
[AERO4800](#) Space Engineering
[CHEE4302](#) Electrochemistry & Corrosion
[ELEC2003](#) Electromechanics & Electronics
[ENGG4103](#) Engineering Asset Management
[ENGY4000](#) Energy Systems
[FIRE3700](#) Introduction to Fire Safety Engineering
[MECH2310](#) Science & Engineering of Metals
[MECH3250](#) Engineering Acoustics
[MECH3301](#) Materials Selection
[MECH3750](#) Engineering Analysis II
[MECH4304](#) Net Shape Manufacturing
[MECH6480](#) Computational Fluid Dynamics
[MECH4950](#) Advanced Manufacturing in Practice
[MECH4951\(#1\)](#) Special Topics D
[METR3100](#) Control System Implementation
[METR4202](#) Robotics & Automation
[PHYS2082](#) Space Science & Stellar Astrophysics
[TIMS3309](#) Fundamentals of Technology and Innovation Management

UQ School of Mechanical and Mining Engineering

studentenquiries@mechmining.uq.edu.au
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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	MATH1052 Multivariate Calculus	MECH2300 Structures & Materials	MECH2410 Fundamentals of Fluid Mechanics	ENGG1500 Engineering Thermodynamics
SEM YEAR 2				
Sem 3 July	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Engineering Analysis I	B0, B1, B2 or B3 Elective	
Sem 4 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2000 Calculus & Linear Algebra II	B0, B1, B2 or B3 Elective	B2 or B3 Elective
SEM YEAR 3				
Sem 5 July	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics	MECH2100 Machine Element Design	B2 or B3 Elective
Sem 6 Feb	MECH3600 Engineering Management & Communication	MECH3300 Finite Element Method & Fracture Mechanics	MECH3400 Thermodynamics & Heat Transfer	MATH2010 Analysis of ODEs
				STAT2201 Analysis of Eng. & Scientific Data
SEM YEAR 4				
Sem 7 July	MECH4501 Engineering Thesis	ENGG4900 Professional Practice & the Business Environment	MECH3100 Mechanical Systems Design	B2 or B3 Elective
Sem 8 Feb		METR4201 Control Engineering 1	B2 or B3 Elective	B3 Elective

B0 Electives

CHEM1090	Introductory Chemistry
MATH1050	Mathematical Foundations
PHYS1171	Physical Basis of Biological Systems

B1 Electives

CHEM1100	Chemistry 1
CSSE1001	Introduction to Software Engineering
ENGG1600	Introduction to Research Practices
PHYS1002	Electromagnetism & Modern Physics

B3 Electives

ENGY4000	Energy Systems
MECH3250	Engineering Acoustics
MECH3750	Engineering Analysis II
METR3100	Control System Implementation

B2 Electives

AERO4300	Aerospace Composites
AERO4450	Aerospace Propulsion
AERO4470	Hypersonics
AERO4800	Space Engineering
CHEE4302	Electrochemistry & Corrosion
ELEC2003	Electromechanics & Electronics
ENGG4103	Engineering Asset Management
ENGY4000	Energy Systems
FIRE3700	Introduction to Fire Safety Engineering
MECH2310	Science & Engineering of Metals
MECH3250	Engineering Acoustics
MECH3301	Materials Selection
MECH3750	Engineering Analysis II
MECH4304	Net Shape Manufacturing
MECH6480	Computational Fluid Dynamics
MECH4950	Advanced Manufacturing in Practice
MECH4951(#1)	Special Topics D
METR3100	Control System Implementation
METR4202	Robotics & Automation
PHYS2082	Space Science & Stellar Astrophysics
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