



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

CREATE CHANGE

Mechanical Engineering *specialisation plus*  
Fire Safety Engineering *major*  
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 2021. 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				
<b>Sem 1 Feb</b>	<a href="#">ENGG1100</a> Professional Engineering	<a href="#">MATH1051</a> Calculus & Linear Algebra I	<a href="#">ENGG1500</a> Thermodynamics: Energy & the Environment	<a href="#">ENGG1700</a> Statics and Materials
<b>Sem 2 July</b>	<a href="#">ENGG1001</a> Programming for Engineers	<a href="#">MATH1052</a> Multivariate Calculus & ODEs	<a href="#">ENGG1300</a> Introduction to Electrical Systems	Elective
SEM YEAR 2				
<b>Sem 3 Feb</b>	<a href="#">MECH2305</a> Intro to Engineering Design & Manufacturing	<a href="#">MECH2410</a> Fundamentals of Fluid Mechanics	<a href="#">MATH2001</a> Advanced Calculus & Linear Algebra II	<a href="#">MECH2300</a> Structures & Materials
<b>Sem 4 July</b>	<a href="#">MECH2100</a> Machine Element Design	<a href="#">MECH2210</a> Intermediate Mechanical & Space Dynamics	<a href="#">MECH2700</a> Computational Engineering & Data Analysis	Elective
SEM YEAR 3				
<b>Sem 5 Feb</b>	<a href="#">MECH3610</a> Systems Engineering Principles	<a href="#">MECH3400</a> Thermodynamics & Heat Transfer	<a href="#">FIRE3700</a> Introduction to Fire Safety Engineering	<a href="#">FIRE4610</a> Fire Engineering Design: Solutions for Implicit Safety
<b>Sem 6 July</b>	<a href="#">MECH3100</a> Systems Engineering Practice	<a href="#">MATH2010</a> Analysis of ODEs	<a href="#">STAT2201</a> Analysis of Eng. & Scientific Data	<a href="#">FIRE6090</a> Fire Dynamics
				<a href="#">FIRE6100</a> Fire Engineering Design: Explicit Quantification of Safety
SEM YEAR 4				
<b>Sem 7 Feb</b>	<a href="#">ENGG4600</a> Engineering Thesis (or) <a href="#">ENGG4552</a> Major Design Project (or) <a href="#">ENGG4013</a> Professional Engineering Project	<a href="#">METR4201</a> Control Engineering I	<a href="#">FIRE6110</a> Structural Fire Engineering	<a href="#">MECH3780</a> Computational Mechanics
<b>Sem 8 July</b>		<a href="#">ENGG4900</a> Professional Practice & the Business Environment	<a href="#">MECH3200</a> Advanced Dynamics & Vibrations	Major Elective

Refer to the 2021 [course list](#) for electives.

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### July Commencement

SEM YEAR 1					
<b>Sem 1 July</b>	ENGG1200 Professional Engineering	MATH1051 Calculus & Linear Algebra I	ENGG1500 Thermodynamics: Energy & the Environment	ENGG1700 Statics & Materials	
<b>Summer Sem</b>					
<b>Sem 2 Feb</b>	ENGG1001 Programming for Engineers	MATH1052 Multivariate Calculus	ENGG1300 Electrical Systems	Elective	
SEM YEAR 2					
<b>Sem 3 July</b>	MATH2001 Advanced Calculus & Linear Algebra II	MECH2210 Intermediate Mechanical & Space Dynamics	Elective		MECH2700 Computational Engineering & Data Analysis
<b>Sem 4 Feb</b>	MECH2305 Intro to Engineering Design & Manufacturing	MECH3400 Thermodynamics & Heat Transfer	MECH2410 Fundamentals of Fluid Mechanics	MECH2300 Structures & Materials	
SEM YEAR 3					
<b>Sem 5 July</b>	MECH2100 Machine Element Design	MECH3200 Advanced Dynamics and Vibrations	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	Major Elective
<b>Sem 6 Feb</b>	MECH3610 Systems Engineering Principles	METR4201 Control Engineering I	FIRE3700 Introduction to Fire Safety	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	
SEM YEAR 4					
<b>Sem 7 July</b>	ENGG4601 Engineering Thesis	MECH3100 Systems Engineering Practice	FIRE6090 Fire Dynamics	FIRE6100 Fire Engineering Design: Explicit Quantification of Safety	
<b>Sem 8 Feb</b>		ENGG4900 Professional Practice & the Business Environment	FIRE6110 Structural Fire Engineering	MECH3780 Computational Mechanics	

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