



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

CREATE CHANGE

**Mechanical Engineering** specialisation plus  
**Materials 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				
Sem 1 Feb	<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	
Sem 2 July	<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				
Sem 3 Feb	<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	
Sem 4 July	<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				
Sem 5 Feb	<a href="#">MECH3610</a> Systems Engineering Principles	<a href="#">MECH3780</a> Computational Mechanics	<a href="#">MECH3400</a> Thermodynamics & Heat Transfer	<a href="#">MATH2010</a> Analysis of ODEs	<a href="#">STAT2201</a> Analysis of Eng. & Scientific Data
Sem 6 July	<a href="#">MECH3100</a> Systems Engineering Practice	<a href="#">MECH3200</a> Advanced Dynamics & Vibrations	<a href="#">MECH2310</a> Science & Engineering of Materials	<a href="#">MECH3301</a> Materials Selection	
SEM	YEAR 4				
Sem 7 Feb	<a href="#">ENGG4600</a> Engineering Thesis (or)  <a href="#">ENGG4552</a> Major Design Project (or)	<a href="#">METR4201</a> Control Engineering I	<a href="#">CHEE3301</a> Polymer Engineering	Major Elective	
Sem 8 July		<a href="#">ENGG4900</a> Professional Practice & the Business Environment	<a href="#">CHEE4302</a> Electrochemistry & Corrosion	Major Elective	

Refer to the 2021 course list for electives: <https://my.uq.edu.au/programs-courses/requirements/program/2455/2021>

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### July Commencement

SEM YEAR 1				
Sem 1 July	<b>ENGG1100</b> Professional Engineering	<b>MATH1051</b> Calculus & Linear Algebra I	<b>ENGG1500</b> Thermodynamics: Energy & the Environment	<b>ENGG1700</b> Statics & Materials
Sem 2 Feb	<b>ENGG1001</b> Programming	<b>MATH1052</b> Multivariate Calculus	<b>ENGG1300</b> Electrical Systems	Elective
SEM YEAR 2				
Sem 3 July	<b>MATH2001</b> Advanced Calculus & Linear Algebra II	<b>MECH2210</b> Intermediate Mechanical & Space Dynamics	Elective	<b>MECH2700</b> Computational Engineering & Data Analysis
Sem 4 Feb	<b>MECH2305</b> Intro to Engineering Design & Manufacturing	<b>MATH2010</b> Analysis of ODEs	<b>STAT2201</b> Analysis of Eng. & Scientific Data	<b>MECH2410</b> Fundamentals of Fluid Mechanics
			<b>MECH2300</b> Structures & Materials	
SEM YEAR 3				
Sem 5 July	<b>MECH2100</b> Machine Element Design	<b>MECH3200</b> Advanced Dynamics and Vibrations	<b>MECH2310</b> Science & Engineering of Materials	<b>MECH3301</b> Materials Selection
Sem 6 Feb	<b>MECH3610</b> Systems Engineering Principles	<b>METR4201</b> Control Engineering I	<b>MECH3400</b> Thermodynamics & Heat Transfer	<b>MECH3780</b> Computational Mechanics
SEM YEAR 4				
Sem 7 July	<b>ENGG4601</b> Engineering Thesis	<b>MECH3100</b> Systems Engineering Practice	<b>CHEE4302</b> Electrochemistry & Corrosion	Major Elective
Sem 8 Feb		<b>ENGG4900</b> Professional Practice & the Business Environment	<b>CHEE301</b> Polymer Engineering	Major Elective

Refer to the 2021 course list for electives: <https://my.uq.edu.au/programs-courses/requirements/program/2455/2021>