



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Mechanical Engineering *specialisation plus*
Biomedical 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	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I	ENGG1500 Thermodynamics: Energy & the Environment	ENGG1700 Statics and Materials
Sem 2 July	ENGG1001 Programming for Engineers	MATH1052 Multivariate Calculus & ODEs	ENGG1300 Introduction to Electrical Systems	Elective
SEM YEAR 2				
Sem 3 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MECH2410 Fundamentals of Fluid Mechanics	MATH2001 Advanced Calculus & Linear Algebra II	MECH2300 Structures & Materials
Sem 4 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis	Elective
SEM YEAR 3				
Sem 5 Feb	MECH3610 Systems Engineering Principles	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	MECH3400 Thermodynamics & Heat Transfer
Sem 6 July	MECH3100 Systems Engineering Practice	MECH3200 Advanced Dynamics & Vibrations	BIOE6305 Biomaterials: Materials in Medicine	BIOE1001 Intro to Biology
Sem 7 Feb	ENGG4600 Engineering Thesis (or) ENGG4552 Major Design Project (or) ENGG4013 Professional Engineering Project	METR4201 Control Engineering I	MECH3780 Computational Mechanics	Major Elective
Sem 8 July		ENGG4900 Professional Practice & the Business Environment	BIOE3001 Quantitative Methods in Biomedical Engineering	Major Elective

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

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July Commencement

SEM YEAR 1					
Sem 1 July	ENGG1200 Professional Engineering	MATH1051 Calculus & Linear Algebra I		ENGG1500 Thermodynamics: Energy & the Environment	ENGG1700 Statics & Materials
Summer Sem					
Sem 2 Feb	ENGG1001 Programming for Engineers	MATH1052 Multivariate Calculus	ENGG1300 Electrical Systems	Elective	
SEM YEAR 2					
Sem 3 July	MATH2001 Advanced Calculus & Linear Algebra II	MECH2210 Intermediate Mechanical & Space Dynamics		Elective	MECH2700 Computational Engineering & Data Analysis
Sem 4 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	MECH2410 Fundamentals of Fluid Mechanics	MECH2300 Structures & Materials
SEM YEAR 3					
Sem 5 July	MECH2100 Machine Element Design	MECH3200 Advanced Dynamics and Vibrations	Major Elective		BIOE6305 Biomaterials: Materials in Medicine
Sem 6 Feb	MECH3610 Systems Engineering Principles	METR4201 Control Engineering I	MECH3400 Thermodynamics & Heat Transfer	BIOE1001 Intro to Biology	
SEM YEAR 4					
Sem 7 July	ENGG4601 Engineering Thesis	MECH3100 Systems Engineering Practice	BIOE6901 Medical Device Engineering	BIOE3001 Quantitative Methods in Biomedical Engineering	
Sem 8 Feb		ENGG4900 Professional Practice & the Business Environment	MECH3780 Computational Mechanics	Major Elective	

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