

CREATE CHANGE

# Mechanical Engineering specialisation plus Mining 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 <u>UQ Courses and Programs</u>. If you have any questions or concerns regarding your course selections, please speak with an <u>Academic Advisor</u> 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	MECH3780 Computational Mechanics
Sem 6 July	MECH3100 Systems Engineering Practice	MECH3200 Advanced Dynamics & Vibrations		MINE3110 Integrated Orebody Knowledge	MINE3122 Mining Systems & Automation
SEM	YEAR 4				
Sem 7 Feb	ENGG4600 Engineering Thesis (or)	METR4201 Control Engineering I		MINE3129 Applied Mining Geomechanics	MINE3123 Mine Planning & Sustainability
Sem 8 July	ENGG4552 Major Design Project (or) ENGG4013 Professional Engineering Project	ENGG4900 Professional Practice & the Business Environment		MINE4124 Mine Design & Feasibility	MINE4129 Mine Process Optimisation

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 **ENGG1100** MATH1051 ENGG1500 Sem 1 ENGG1700 Thermodynamics: Energy & the Environment Professional Calculus & Linear Algebra Statics & Materials July Engineering ENGG1001 Sem 2 MATH1052 ENGG1300 Programming for Elective **Multivariate Calculus Electrical Systems** Feb Engineers SEM YEAR 2 MFCH2700 MATH2001 **MECH2210** Sem 3 Computational Advanced Calculus & Intermediate Mechanical Elective Engineering & Data July Linear Algebra II & Space Dynamics Analysis STAT2201 **MECH2305 MATH2010 MECH2410** Analysis Sem 4 **MECH2300** Intro to Engineering of Eng. & Analysis of ODEs Fundamentals of Fluid Structures & Materials Feb Design & Manufacturing Scientific Mechanics Data YEAR 3 SEM MECH2100 **MECH3200** MINE3110 **MINE3122** Sem 5 Integrated Orebody Knowledge **Machine Element** Advanced Dynamics and Mining Systems & Automation July Design Vibrations MECH3610 **MINE3123** MINE3129 Sem 6 **METR4201** Systems Engineering Mine Planning & Applied Mining **Control Engineering I** Feb Principles Sustainability Geomechanics SEM YEAR 4 **MECH3100 MINE4129** Sem 7 **MINE4124** Systems Engineering **Mine Process** Mine Design & Feasibility July Practice Optimisation ENGG4601 ENGG4900 **Engineering Thesis MECH3780** MECH3400 Sem 8 **Professional Practice** Computational Thermodynamics & Heat & the Business Feh Mechanics Transfer

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Environment



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