THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

2024 Commencement Mechanical Engineering Specialisation with a Major in Mining Engineering Bachelor of Engineering (Honours)

Recommended Study Plan

This study plan is **a guide only** for students commencing the Bachelor of Engineering (Hons) in a Mechanical Engineering Specialisation with a major in Mining Engineering in 2024. Please note that all course selections must adhere to the 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.

Compulsory Core #8	Compulsory Specialisation #36	Preparatory courses or First Year or General Elective #0-#4
#4 Mining Engineering Courses for Mechanical Engineers	#12 Mining Engineering Compulsory Courses	

February Commencement

SEMESTER — YEAR 1

SEMESTER				
Sem 1 Feb	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	ENGG1700 Statics and Materials
Sem 2 July	ENGG1500 Thermodynamics: Energy & the Environment	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary	ENGG1300 Introduction to Electrical Systems	**Preparatory Course or First Year or General Elective**

SEMESTER — YEAR 2

SEMESTER				
Sem 1 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2001 Calculus & Linear Algebra II	MECH2300 Structures & Materials	MECH2410 Fundamentals of Fluid Mechanics
Sem 2 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis	**Preparatory Course or First Year or General Elective**

SEMESTER — YEAR 3

SEMESTER					
Sem 1 Feb	MECH3610 Systems Engineering Principles	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data	MECH3400 Thermodynamics & Heat Transfer	MECH3780 Computational Mechanics
Sem 2 July	MECH3100 Systems Engineering Practice	MECH3200 Advanced Dynamics & Vibrations		MINE3110 Integrated Orebody Knowledge	MINE3122 Mine Systems & Automation

SEMESTER — YEAR 4

SEMESTER				
Sem 1 Feb	ENGG4600 Engineering Thesis (or) ENGG4552 Major Design Project	METR4201 Control Engineering 1	MINE3123 Mine Planning & Sustainability	MINE3129 Applied Mining Geomechanics
Sem 2 July		ENGG4902 Professional Practice & the Business Environment	MINE4124 Mine Design & Feasibility	MINE4129 Mine Process Optimisation

July Commencement

SEMESTER	YEAR 1			
Sem 2 July	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	ENGG1700 Statics and Materials
Sem1 Feb	MECH2300 Structures & Materials	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1500 Thermodynamics: Energy & the Environment	ENGG1300 Introduction to Electrical Systems
SEMESTER	**YEAR 2**			
Sem 2 July	**MECH2100 Machine Element Design**	**MATH2001 Calculus & Linear Algebra II**	**MECH2210 Intermediate Mechanical & Space Dynamics**	**MECH2700 Computational Engineering & Data Analysis**
Sem 1 Feb	**MECH2305 Intro to Engineering Design & Manufacturing**	**MATH2010 Analysis of ODEs** / **STAT2201 Analysis of Eng.& Scientific Data**	**MECH2410 Fundamentals of Fluid Mechanics**	**MECH3780 Computational Mechanics**
SEMESTER	**YEAR 3**			
Sem 2 July	**MECH3100 Systems Engineering Practice**	**MECH3200 Advanced Dynamics & Vibrations**	**MINE3110 Integrated Orebody Knowledge**	**MINE3122 Mine Systems & Automation**
Sem 1 Feb	**MECH3610 Systems Engineering Principles**	**MECH3400 Thermodynamics & Heat Transfer**	**MINE3123 Mine Planning & Sustainability**	**MINE3129 Applied Mining Geomechanics**
SEMESTER	**YEAR 4**			
Sem 2 July	**ENGG4601 Engineering Thesis**	**Preparatory Course or First Year or General Elective**	**MINE4124 Mine Design & Feasibility**	**MINE4129 Mine Process Optimisation**
Sem 1 Feb		**METR4201 Control Engineering 1**	**ENGG4901 Professional Practice & the Business Environment**	**Preparatory Course or First Year or General Elective**

*Refer to course list for details on how to combine electives.

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