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CREATE CHANGE

2024 Commencement Mechatronic 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 Mechatronic Engineering Specialisation with a major in Mining Engineering in 2024. Please note that all course selections must adhere to the 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>.

#8 Compulsory Core #8	Compulsory Specialisation	Preparatory courses or general elective #0-#4
#4 Mining Engineering Courses for Mechatronic Engineers	#12 Mining Engineering Compulsory Courses	

February Commencement

SEMESTER	R YEAR 1						
Sem 1 Feb	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1300 Introduction to Electrical Systems	Preparatory courses or general elective			
Sem 2 July	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary	ENGG1700 Statics and Materials	Preparatory courses or general elective			
SEMESTER	R YEAR 2						
Sem 1 Feb	MECH2300 Structures & Materials	METR2800 Mechatronic System Design Project I	CSSE2010 Intro to Computer Systems	MATH2001 Calculus & Linear Algebra			
Sem 2 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	ELEC2004 Circuits, Signals & Systems	MATH2010 Analysis of Analysis of ODEs Scientific Data			
SEMESTER	SEMESTER YEAR 3						
Sem 1 Feb	METR3100 Control Systems Implementation	METR4201 Control Engineering 1	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	ELEC3004 Signals, Systems & Control			
Sem 2 July	METR4810 Mechatronic System Design Project II	MECH2100 Machine Element Design	MINE3110 Integrated Orebody Knowledge	MINE3122 Mine Systems & Automation			
SEMESTER YEAR 4							
Sem 1 Feb	METR4911	ENGG4901 Professional Practice & the Business Environment	MINE3123 Mine Planning & Sustainability	MINE3129 Applied Mining Geomechanics			
Sem 2 July	Thesis/Design Project	MECH3200 Advanced Dynamics & Vibrations	MINE4124 Mine Design & Feasibility	MINE4129 Mine Process Optimisation			

Recommended Study Plan.

July Commencement

SEMESTER	R YEAR 1					
Sem 2 July	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1300 Introduction to Electric Systems	Preparatory courses or general elective*		
Sem1 Feb	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1700 Statics and Materials	Preparatory courses or general elective*		
SEMESTER	R YEAR 2					
Sem 2 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MATH2001 Calculus & Linear Algebra	MINE3110 Integrated Orebody Knowledge		
Sem 1 Feb	METR2800 Mechatronic System Design Project I	MECH2300 Structures & Materials	MATH2010 Analysis Analysis of Eng.& ODEs Scientifi Data	of CSSE2010 Intro to Computer		
SEMESTER YEAR 3						
Sem 2 July	METR4810 Mechatronic System Design Project II	ELEC2004 Circuits, Signals & Systems	MECH3200 Advanced Dynamics Vibrations	MINE3122 & Mine Systems & Automation		
Sem 1 Feb	METR3100 Control Systems Implementation	METR4201 Control Engineering I	MINE3123 Mine Planning & Sustainability	MINE3129 Applied Mining Geomechanics		
SEMESTER	R YEAR 4					
Sem 2 July	METR4912 Thesis/Design Project	METR4202 Robotics & Automation	MINE4124 Mine Design & Feasibi	MINE4129 Mine Process Optimisation		
Sem 1 Feb		ENGG4901 Professional Practice & the Business Environment	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	ELEC3004 Signals, Systems & Control		

Refer to the course list for electives:

Bachelor of Engineering (Honours) - my.UQ - The University of Queensland, Australia