UQ School of Mechanical and Mining Engineering

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

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2024 Commencement Mechatronic Engineering Specialisation with a Minor in Data Science Bachelor of Engineering (Honours)

Recommended Study Plan

This study plan is **a guide only** for students commencing the Bachelor of Engineering (Hons) with a specialisation in Mechatronic Engineering and a minor in Data Science 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 a Academic Advisor.

#8 Compulsory Core #8	Compulsory Specialisation	Preparatory courses or general elective #0-#4
#8 Mechatronic Engineering Extension Courses	#4 Data Science Compulsory Courses	#4 Data Science Elective Course

February Commencement

SEMESTER	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	**YEAR 2**				
Sem 1 Feb	METR2800 Mechatronic System Design Project I	MECH2300 Structures & Materials	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	MATH2001 Calculus & Linear Algebra II	
Sem 2 July	CSSE2010 Intro to Computer Systems	MECH2210 Intermediate Mechanical & Space Dynamics	ELEC2004 Circuits, Signals & Systems	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data
SEMESTER	**YEAR 3**				
Sem 1 Feb	METR3100 Control Systems Implementation	METR4201 Control Engineering 1	ELEC2400 Electronic Devices & Circuits	INFS1200 Introduction to Information Systems	
Sem 2 July	METR4810 Mechatronic System Design Project II	MECH2100 Machine Element Design	METR4202 Robotics & Automation	DATA2001 Fundamentals of Data Science	
SEMESTER	**YEAR 4**				
Sem 1 Feb	METR4911 Thesis/Design Project	ENGG4901 Professional Practice & the Business Environment	ELEC3004 Signals, Systems & Control	Data Science Elective*	
Sem 2 July		METR6203 Control Engineering 2	MECH3200 Advanced Dynamics & Vibrations	Data Science Elective*	

Recommended Study Plan .

July Commencement

SEMESTER	YEAR 1			
Sem 2 July	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*
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	**YEAR 2**			
Sem 2 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	CSSE2010 Introduction to Computer Systems	MATH2001 Calculus & Linear Algebra
Sem 1 Feb	METR2800 Mechatronic System Design Project I	MECH2300 Structures & Materials	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	INFS1200 Introduction to Information Systems
SEMESTER	**YEAR 3**			
Sem 2 July	ELEC2400 Electronic Devices & Circuits	MATH2010 Analysis of ODEs / STAT2201 Analysis of Eng.& Scientific Data	MECH3200 Advanced Dynamics & Vibrations	DATA2001 Fundamentals of Data Science
Sem 1 Feb	METR3100 Control Systems Implementation	METR4201 Control Engineering I	ELEC2004 Circuits, Signals & Systems	Data Science Elective*
SEMESTER	**YEAR 4**			
Sem 2 July	METR4912 Thesis/Design Project	METR4202 Robotics & Automation	METR4810 Mechatronic System Design Project II	METR6203 Control Engineering 2
Sem 1 Feb		ENGG4901 Professional Practice & the Business Environment	ELEC3004 Signals, Systems & Control	Data Science Elective*

Refer to the course list for electives:

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