THE UNIVERSITY
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2024 Commencement Mechatronic Engineering Specialisation with a Major in Computer 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 Computer 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.

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

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	MECH2300 Structures & Materials	METR2800 Mechatronic System Design Project I	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	MATH2001 Calculus & Linear Algebra	
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	CSSE2002 Programming in the Large	CSSE2310 Computer Systems Principles and Programming
Sem 2 July	METR4810 Mechatronic System Design Project II	METR4202 Robotics & Automation	MECH2100 Machine Element Design	CSSE3010 Embedded Systems Design & Interfacing

SEMESTER	YEAR 4			
Sem 1 Feb	METR4911 Thesis/Design Project	ENGG4901 Professional Practice & the Business Environment	ELEC3004 Signals, Systems & Control	CSSE4011 Advanced Embedded Systems
Sem 2 July		MECH3200 Advanced Dynamics & Vibrations	COMP3506 Algorithms & Data Structure	CSSE4010 Digital System Design

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*
Sem 1 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	MATH2001 Calculus & Linear Algebra	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data
Sem 1 Feb	METR2800 Mechatronic System Design Project I	CSSE2010 Intro to Computer Systems	CSSE2002 Programming in the Large	CSSE2310 Computer Systems Principles and Programming	

SEMESTER	YEAR 3			
Sem 2 July	METR4810 Mechatronic System Design Project II	MECH3200 Advanced Dynamics & Vibrations	COMP3506 Algorithms & Data Structure	CSSE3010 Embedded Systems Design & Interfacing
Sem 1 Feb	METR3100 Control Systems Implementation	METR4201 Control Engineering I	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	MECH2300 Structures & Materials

SEMESTER	YEAR 4			
Sem 2 July	METR4912 Thesis/Design Project	METR4202 Robotics & Automation	METR4810 Mechatronic System Design Project II	CSSE4010 Digital System Design
Sem 1 Feb		ENGG4901 Professional Practice & the Business Environment	ELEC3004 Signals, Systems & Control	CSSE4011 Advanced Embedded Systems

Refer to the course list for electives:

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