

2024 Commencement Mechanical Engineering Specialisation with a minor in Data Science Bachelor of Engineering (Honours)

CREATE CHANGE



Recommended Study Plan

This study plan is a **guide only** for students commencing the Bachelor of Engineering (Hons) with a Mechanical Engineering Specialisation and a minor in Data Science 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 a Mechanical Engineering <u>Academic Advisor</u>.

Compulsory Core #8	Compulsory Specialisation #36	Preparatory courses or First Year or General Elective #0-#4	
#6 Compulsory Extension Courses	#2 Advanced Electives	#8 Minor 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		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								
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	R YEAR 3							
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		D ATA2001 Fundamentals of Data Science	MECH3410 Fluid Mechanics			
SEMESTER	R YEAR 4							
Sem 1 Feb	ENGG4600 Engineering Thesis (or)	METR4201 Control Engineering 1		INFS1200 Introduction to Information Systems	Data Science Elective Course			
Sem 2 July	ENGG4552 Major Design Project	Professiona the Bu	64902 Il Practice & siness nment	Data Science Elective Course	Advanced Elective*			

July Commencement

SEMESTER	R 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	MECH3200 Advanced Dynamics & Vibrations	First Year	y Course or or General ctive	Preparatory Course or First Year or General Elective	MECH3410 Fluid Mechanics		
Sem 1 Feb	MECH3610 Systems Engineering Principles	MECH3400 Thermodynamics & Heat Transfer		INFS1200 Introduction to Information Systems	Advanced Elective*		
SEMESTER YEAR 4							
Sem 2 July	ENGG4601	MECH Systems E Prac		D ATA2001 Fundamentals of Data Science	Data Science Elective Course		
Sem 1 Feb			34901 Il Practice & siness onment	METR4201 Control Engineering 1	Data Science Elective Course		

^{*}Refer to the course list for electives:

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