

CREATE CHANGE

2024 Commencement Mechanical Engineering Specialisation with a Major in Biomedical 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 Biomedical Engineering in 2024. Please note that all course selections must adhere to the course list outlined at <u>UQ ourses and Programs</u>. If you have any questions or concerns regarding your course selections, please speak with an <u>Academic Advisor</u>.

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

February Commencement

SEMESTER	YEAR 1				
Sem 1 Feb	ENGG1100 Professional Engineering	MATH Calculus & Lin (or MATH Advanced C Linear Al	lear Algebra I r) 1071 Calculus &	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	R YEAR 2				
Sem 1 Feb	MECH2300 Structures & Materials	MATH Calculus Algeb	& Linear	MECH2305 Intro to Engineering Design & Manufacturing	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	BIOE1001 Principles of Biomedical & Bioprocess Engineering
Sem 2 July	MECH3100 Systems Engineering Practice	MECH3200 Advanced Dynamics & Vibrations		BIOE4305 Biomaterials: Materials in Medicine	BIOE3001 Quantitative Methods in Biomedical Engineering
SEMESTER	R YEAR 4				
Sem 1 Feb	ENGG4600 Engineering Thesis (or) ENGG4552 Major Design Project	METR4201 Control Engineering 1		MECH3780 Computational Mechanics	BIOE6901 Medical Device Engineering
Sem 2 July		ENGG Professional the Bus Enviror	Practice &	Biomedical Engineering Elective	Biomedical Engineering Elective

July Commencement

SEMESTER	R YEAR 1						
Sem 2 July	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebr I (or) MATH1071 Advanced Calculus & Linear Algebra I	a ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	ENGG1700 Statics and Materials			
Sem1 Feb	ENGG1500 Thermodynamics: Energy & the Environment	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1300 Introduction to Electrical Systems	Preparatory Course or First Year or General Elective			
SEMESTER	R YEAR 2						
Sem 2 July	Preparatory Course or First Year or General Elective	MATH2001 Calculus & Linear Algebra II	MECH2210 Intermediate Mechanica & Space Dynamics	MECH2700 Computational Engineering & Data Analysis			
Sem 1 Feb	MECH2300 Structures & Materials	STAT220 MATH2010 Analysis of Analysis of Eng.& ODEs Scientific Data	f MECH2305 Intro to Engineering	MECH2410 Fundamentals of Fluid Mechanics			
SEMESTER YEAR 3							
Sem 2 July	MECH2100 Machine Element Design	MECH3200 Advanced Dynamics & Vibrations	ENGG4902 Professional Practice & the Business Environment	Biomedical Engineering Elective			
Sem 1 Feb	MECH3610 Systems Engineering Principles	MECH3400 Thermodynamics & Heat Transfer	MECH3780 Computational Mechanics	BIOE1001 Principles of Biomedical & Bioprocess Engineering			
SEMESTER	R YEAR 4						
Sem 2 July	ENGG4601	MECH3100 Systems Engineering Practice	BIOE4305 Biomaterials: Materials in Medicine	BIOE3001 Quantitative Methods in Biomedical Engineering			
Sem 1 Feb	Engineering Thesis	METR4201 Control Engineering ⁄	BIOE6901 Medical Device Engineering	Biomedical Engineering Elective			

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

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