The University Of Queensland
AUSTRALIA

CREATE CHANGE

Mechanical & Aerospace Engineering

Bachelor of Engineering (Honours)

Recommended Study Plan

This study plan is a guide only for students commencing the Bachelor of Engineering (Hons) in Mechanical and Aerospace Engineering in 2020. Please note that all course selections must adhere to the program 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 in the School of Mechanical and Mining Engineering.

February Commencement

SEM	YEAR 1				
Sem 1 Feb	ENGG1100 Engineering Design	ENGG1400 Engineering Mechanics: Statics & Dynamics	MATH1051 Calculus & Linear Algebra I	Elective	
Sem 2 July	ENGG1200 Engineering Modelling & Problem Solving	ENGG1500 Engineering Thermodynamics	MATH1052 Multivariate Calculus & ODEs	ENGG1300 Introduction to Electrical Systems	
SEM	**YEAR 2**				
Sem 3 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MECH2410 Fundamentals of Fluid Mechanics	MATH2000 Calculus & Linear Algebra II	MECH2300 Structures & Materials	
Sem 4 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Engineering Analysis I	Elective	
SEM	**YEAR 3**				
Sem 5 Feb	MECH3600 Engineering Management & Communication	MECH3300 Finite Element Method & Fracture Mechanics	MECH3400 Thermodynamics & Heat Transfer	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data
Sem 6 July	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics	MECH3750 Engineering Analysis II	
SEM	**YEAR 4**				
Sem 7 Feb	MECH4500 Engineering Thesis (or) MECH4552 Major Design Project (or) ENGG4013 Prof. Engineering Project	AERO4450 Aerospace Propulsion	METR4201 Control Engineering 1	B4 Elective	
Sem 8 July		ENGG4900 Professional Practice & the Business Environment	AERO4100 Aero Design & Manufacturing	B4 Elective	

B0 Electives

CHEM1090	Introductory Chemistry
MATH1050	Mathematical Foundations
PHYS1171	Physical Basis of Biological Systems

B1 Electives

CHEM1100	Chemistry 1
CSSE1001	Introduction to Software Engineering
ENGG1600	Introduction to Research Practices
PHYS1002	Electromagnetism & Modern Physics

B4 Electives

AERO4200	Flight Mechanics & Avionics
AERO4300	Aerospace Composites
AERO4470	Hypersonics
AERO4800	Space Engineering
MECH6480	Computational Fluid Dynamics

UQ School of Mechanical and Mining Engineering

studentenquiries@mechmining.uq.edu.au
mechmining.uq.edu.au/study

Recommended Study Plan

This study plan is a guide only for students commencing the Bachelor of Engineering (Hons) in Mechanical and Aerospace Engineering in 2020. Please note that all course selections must adhere to the program 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 in the School of Mechanical and Mining Engineering.

July Commencement

SEM	YEAR 1			
Sem 1 July	ENGG1211 Engineering Design, Modelling & Problem Solving	MATH1051 Calculus & Linear Algebra I	ENGG1300 Introduction to Electrical Systems	ENGG1400 Engineering Mechanics: Statics & Dynamics
Summer Sem				
Sem 2 Feb	MATH1052 Multivariate Calculus & ODEs	MECH2300 Structures & Materials	MECH2305 Intro to Engineering Design & Manufacturing	ENGG1500 Engineering Thermodynamics
SEM	**YEAR 2**			
Sem 3 July	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Engineering Analysis I	MECH2100 Machine Element Design	
Sem 4 Feb	MECH2410 Fundamentals of Fluid Mechanics	MATH2000 Calculus & Linear Algebra II	Elective	Elective
SEM	**YEAR 3**			
Sem 5 July	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics	MECH3750 Engineering Analysis II
Sem 6 Feb	MECH3600 Engineering Management & Communication	MECH3300 Finite Element Method & Fracture Mechanics	MECH3400 Thermodynamics & Heat Transfer	MATH2010 Analysis of ODEs / STAT2201 Analysis of Eng. & Scientific Data
SEM	**YEAR 4**			
Sem 7 July	MECH4501 Engineering Thesis (or)	AERO4100 Aero Design & Manufacturing	ENGG4900 Professional Practice & the Business Environment	B4 Elective
Sem 8 Feb	ENGG4013 Prof. Engineering Project	AERO4450 Aerospace Propulsion	METR4201 Control Engineering 1	B4 Elective

B0 Electives

CHEM1090	Introductory Chemistry
MATH1050	Mathematical Foundations
PHYS1171	Physical Basis of Biological Systems

B1 Electives

CHEM1100	Chemistry 1
CSSE1001	Introduction to Software Engineering
ENGG1600	Introduction to Research Practices
PHYS1002	Electromagnetism & Modern Physics

B4 Electives

AERO4200	Flight Mechanics & Avionics
AERO4300	Aerospace Composites
AERO4470	Hypersonics
AERO4800	Space Engineering
MECH6480	Computational Fluid Dynamics

UQ School of Mechanical and Mining Engineering

studentenquiries@mechmining.uq.edu.au
mechmining.uq.edu.au/study