

Bachelor of Engineering (Honours)

Specialisation in Mechatronic Engineering

ENTRY REQUIREMENTS

Academic Requirements	Guaranteed entry - 80
Assumed Knowledge	HSC Mathematics Advanced (Band 4) or equivalent. If you don't have the assumed knowledge, you're advised to undertake a bridging course in mathematics.
Recommended Studies	HSC Mathematics Extension 1 or HSC Mathematics Extension 2 plus HSC Physics, or equivalent. HSC Software Design and Development or equivalent.

COURSE STRUCTURE

Bachelor of Engineering= 280 credit points		
Core Zone	70 credit points	
Specialisation in Mechatronic Engineering	210 credit points	
Qualification = 280 credit points		

CORE ZONE

Essential units - 60 credit points			
ENGG1000 Introduction to Engineering	10		
ENGG1050 Engineering Design	10		
ENGG2000 Engineering Practice	10		
ENGG2050 Engineering Systems and Design Thinking	10		
ENGG3000 Engineering Project Practice	10		
ENGG3050 Engineering Leadership and Entrepreneurship	10		
ENGG4099 PACE: Industry Experience	10		
Capstone unit - 10 credit points			
Complete the capstone unit below.			
ENGG4001 Professional Practice	10		

FLEXIBLE ZONE

Flexible Zone = 40 credit points

This zone allows you to either gain more depth in your chosen area of study or learn about other areas that interest you. You can use your flexible zone to enrol in any Undergraduate unit for which you meet the requisites. You may also use your flexible zone to complete a minor.

SPECIALISATION

Mechatronic Engineering = 210 credit points					
Complete th	Complete the following units.				
MATH1010	Calculus and Linear Algebra I				
MATH1020	Calculus and Linear Algebra II				
COMP1000	Introduction to Computer Programming				
MECH1001	Introduction to Mechanical Engineering				
PHYS1510	Engineering Physics				
PHYS1520	Physics for Electrical and Electronic Engineering				
ELEC2070	Linear Circuits and Devices				
ELEC2005	Electrical and Electronic Systems				
ELEC2040	Signals and Systems				
MATH2055	Engineering Mathematics II				
MECH2003	Mechanical Design 1				
MTRN2060	Introduction to Mechatronics				
ELEC3024	Control Systems				
ELEC3042	Embedded Systems				
MTRN3026	Mechatronic Systems				
MTRN3060	Robotics and Automation				
MTRN4062	Micro Electro Mechanical Systems (MEMS)				
MTRN4066	Advanced Mechatronic Engineering				
MTRN4068	Wireless Mechatronics				
MTRN4092	Mechatronic Engineering Research Thesis A				
MTRN4093	Mechatronic Engineering Research Thesis B				