Bachelor Engineering (Honours) - 3707 - Robotics & Mechatronics
Eng - MTRNBH - T2 2026 Start

Program: Engineering (Honours) [3707]

Year 1 Term 2

Course or Activity	Prerequisites	Credits
MATH1131 Mathematics 1A		6
MMAN1130 Design and Manufacturing		6
PHYS1121 or PHSY1131		6

Year 1 Term 3

Course or Activity	Prerequisites	Credits
COMP1511 Programming Fundamentals		6
ENGG1300 Engineering Mechanics	MATH1131	6
MATH1231 Mathematics 1B	MATH1131	6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
DESN1000 Introduction to Engineering Design and Innovation		6
ELEC1111 Electrical Circuit Fundamentals		6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
COMP2521 Data Structures and Algorithms	COMP1511	6
MATH2018 or MATH2019		6
Free Electives		6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
DESN2000 Engineering Design and Professional Practice	COMP2521, ELEC2141, DESN1000, COMP1511, MMAN1130	6
MATH2089 Numerical Methods and Statistics	MATH1231	6
MTRN2500 Computing for Mechatronic Engineers	COMP2521	6

Year 3 Term 1

Course or Activity	Prerequisites	Credits
ELEC2141 Digital Circuit Design		6

ENGG2400 or ENGG2500 or MMAN2700		6

Year 3 Term 2

Course or Activity	Prerequisites	Credits
DESN3000 Strategic Design Innovation	DESN1000, DESN2000	6
MMAN2300 Engineering Mechanics 2	ENGG1300	6
MTRN3100 Robot Design	MTRN3210, MTRN2500, ELEC1111	6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
MTRN3500 Computing Applications in Mechatronics Systems	MTRN2500	6
General Education		6
Discipline Electives		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
MTRN3020 Modelling and Control of Mechatronic Systems	MTRN3210	6
MTRN3210 Feedback Control Systems	MMAN2300, ELEC1111	6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
MMAN4951 Thesis A		4
MTRN4230 Robotics	MTRN3210, MMAN2300, COMP1511	6
Recommended Discipline Electives		6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
MMAN4952 Thesis B	MMAN4951	4
General Education		6
Discipline Electives		6

Year 5 Term 1

Course or Activity	Prerequisites	Credits
ENGG4999 Industrial Training		0
MMAN4953 Thesis C	MMAN4952	4
MTRN4010 Advanced Autonomous Systems	COMP2521, MTRN3210, MTRN2500, MATH2089	6
Free Electives		6