

Bachelor Engineering (Hons)/Computer Science 3785 -Mech & Manufacturing Eng - MANFBH - T1 2026 Start

Program: Engineering (Hons) / Comp Sci [3785]

Year 1 Term 1

Course or Activity	Prerequisites	Credits
COMP1511 Programming Fundamentals		6
<i>PHYS1121 or PHYS1131</i>		6
<i>MATH1131 or MATH1141</i>		6

Year 1 Term 2

Course or Activity	Prerequisites	Credits
MMAN1130 Design and Manufacturing		6
<i>MATH1231 or MATH1241</i>		6

Year 1 Term 3

Course or Activity	Prerequisites	Credits
DESN1000 Introduction to Engineering Design and Innovation		6
ELEC1111 Electrical Circuit Fundamentals		6
ENGG1300 Engineering Mechanics		6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
MMAN2700 Thermodynamics		6
<i>MATH2018 or MATH2019</i>		6
<i>COMP1521</i>		6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
COMP1531 Software Engineering Fundamentals	COMP1511	6
<i>Computing Electives</i>		6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
DESN2000 Engineering Design and Professional Practice	COMP2521, DESN1000, COMP1511, MMAN1130	6
ENGG2500 Fluid Mechanics for Engineers		6

MATH2089 Numerical Methods and Statistics		6
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Year 3 Term 1

Course or Activity	Prerequisites	Credits
COMP2521 Data Structures and Algorithms	COMP1511	6
<i>Discipline Electives</i>		6
<i>Computing Electives</i>		6

Year 3 Term 2

Course or Activity	Prerequisites	Credits
ENGG2400 Mechanics of Solids 1	ENGG1300	6
MMAN2300 Engineering Mechanics 2	ENGG1300	6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
COMP2511 Object-Oriented Design and Programming	COMP2521, COMP1531	6
COMP3900 Computer Science Project	COMP2521, COMP1531	6
<i>Computing Electives</i>		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
MANF4100 Design and Analysis of Product-Process Systems	DESN1000, MMAN1130	6
MECH3110 Mechanical Design 1	ENGG2400, DESN2000	6
<i>COMP3121 or COMP3821</i>		6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
DESN3000 Strategic Design Innovation	DESN1000, DESN2000	6
MANF3510 Process Technology and Automation	MMAN1130	6
MMAN3200 Linear Systems and Control	MMAN2300, ELEC1111	6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
COMP4920 Professional Issues and Ethics in Information Technology		6
<i>Computing Electives</i>		6

Year 5 Term 1

Course or Activity	Prerequisites	Credits
MANF4150 Design of Intelligent Manufacturing Systems	MANF4100, MANF3510	6
MANF4430 Reliability and Maintenance Engineering	MATH2089	6
MMAN4951 Thesis A		4

Year 5 Term 2

Course or Activity	Prerequisites	Credits
MANF4611 Process Modelling and Simulation	MATH2089	6
MMAN4952 Thesis B	MMAN4951	4
<i>Discipline Electives</i>		6

Year 5 Term 3

Course or Activity	Prerequisites	Credits
ENGG4999 Industrial Training		0
MMAN4400 Engineering Management		6
MMAN4953 Thesis C	MMAN4952	4
<i>Computing Electives</i>		6