



Bachelor Engineering (Hons)/Computer Science 3785 -Mech & Manufacturing Eng - MANFBH - T3 2026 Start

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

Year 1 Term 3

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

Year 2 Term 1

| Course or Activity | Prerequisites | Credits |
|--|---------------|---------|
| DESN1000 Introduction to Engineering Design and Innovation | | 6 |
| ELEC1111 Electrical Circuit Fundamentals | | 6 |
| <i>MATH1231 or MATH1241</i> | | 6 |

Year 2 Term 2

| Course or Activity | Prerequisites | Credits |
|-----------------------------------|---------------|---------|
| ENGG1300 Engineering Mechanics | | 6 |
| MMAN1130 Design and Manufacturing | | 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 |
| <i>COMP1521</i> | | 6 |

Year 3 Term 1

| Course or Activity | Prerequisites | Credits |
|--|---------------|---------|
| COMP1531 Software Engineering Fundamentals | COMP1511 | 6 |
| MMAN2700 Thermodynamics | | 6 |
| <i>MATH2018 or MATH2019</i> | | 6 |

Year 3 Term 2

| Course or Activity | Prerequisites | Credits |
|--------------------------------|---------------|---------|
| ENGG2400 Mechanics of Solids 1 | ENGG1300 | 6 |

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| MMAN2300 Engineering Mechanics 2 | ENGG1300 | 6 |
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Year 3 Term 3

| Course or Activity | Prerequisites | Credits |
|---|---------------|---------|
| COMP2521 Data Structures and Algorithms | COMP1511 | 6 |
| MATH2089 Numerical Methods and Statistics | | 6 |
| <i>Computing Electives</i> | | 6 |

Year 4 Term 1

| Course or Activity | Prerequisites | Credits |
|---|--------------------|---------|
| COMP2511 Object-Oriented Design and Programming | COMP2521, COMP1531 | 6 |
| <i>Computing Electives</i> | | 6 |
| <i>Discipline Electives</i> | | 6 |

Year 4 Term 2

| Course or Activity | Prerequisites | Credits |
|----------------------------|---------------|---------|
| COMP3121 or COMP3821 | | 6 |
| <i>Computing Electives</i> | | 6 |

Year 4 Term 3

| Course or Activity | Prerequisites | Credits |
|-----------------------------------|--------------------|---------|
| COMP3900 Computer Science Project | COMP2521, COMP1531 | 6 |
| MMAN4400 Engineering Management | | 6 |
| <i>Computing Electives</i> | | 6 |

Year 5 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 |

Year 5 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 5 Term 3

| Course or Activity | Prerequisites | Credits |
|---|---------------|---------|
| COMP4920 Professional Issues and Ethics in Information Technology | | 6 |
| MMAN4951 Thesis A | | 4 |
| <i>Discipline Electives</i> | | 6 |

Year 6 Term 1

| Course or Activity | Prerequisites | Credits |
|--|----------------------|----------------|
| MANF4150 Design of Intelligent Manufacturing Systems | MANF4100, MANF3510 | 6 |
| MANF4430 Reliability and Maintenance Engineering | MATH2089 | 6 |
| MMAN4952 Thesis B | MMAN4951 | 4 |

Year 6 Term 2

| Course or Activity | Prerequisites | Credits |
|---|----------------------|----------------|
| ENGG4999 Industrial Training | | 0 |
| MANF4611 Process Modelling and Simulation | MATH2089 | 6 |
| MMAN4953 Thesis C | MMAN4952 | 4 |
| <i>Computing Electives</i> | | 6 |