

Bachelor Eng (Honours) / Master Biomedical Eng - 3768 - Mechanical Engineering - MECHAH - T1 2026

Program: Eng (Hons) / MBiomedE [3768]

Year 1 Term 1

Course or Activity	Prerequisites	Credits
DESN1000 Introduction to Engineering Design and Innovation		6
<i>MATH1131 or MATH1141</i>		6
<i>PHYS1121 or PHYS1131</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
ELEC1111 Electrical Circuit Fundamentals		6
ENGG1300 Engineering Mechanics		6
<i>ENGG1811 or COMP1911 or COMP1511</i>		6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
MATH2089 Numerical Methods and Statistics		6
MMAN2700 Thermodynamics		6
<i>MATH2018 or MATH2019</i>		6

Year 2 Term 2

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

Year 2 Term 3

Course or Activity	Prerequisites	Credits
ANAT2511 Fundamentals of Anatomy		6
DESN2000 Engineering Design and Professional Practice	DESN1000, MMAN1130	6

ENGG2500 Fluid Mechanics for Engineers		6
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Year 3 Term 1

Course or Activity	Prerequisites	Credits
MECH3110 Mechanical Design 1	ENGG2400, DESN2000	6
MMAN3400 Mechanics of Solids 2	ENGG2400	6
PHSL2121 Principles of Physiology A		6

Year 3 Term 2

Course or Activity	Prerequisites	Credits
DESN3000 Strategic Design Innovation	DESN1000, DESN2000	6
MECH3610 Advanced Thermofluids	ENGG2500, MMAN2700	6
MMAN3200 Linear Systems and Control	MMAN2300, ELEC1111	6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
<i>Recommended Discipline Electives</i>		6
<i>Recommended Discipline Electives</i>		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
<i>Recommended Discipline Electives</i>		6
<i>Biomedical Engineering Courses</i>		6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
MECH4100 Mechanical Design 2	MECH3110	6
<i>Discipline Electives</i>		6
<i>Free Elective</i>		6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
<i>Biomedical Engineering Courses</i>		6
<i>Biomedical Engineering Courses</i>		6
<i>Biomedical Engineering Courses</i>		6

Year 5 Term 1

Course or Activity	Prerequisites	Credits
BIOM4951 Research Thesis A		4
BIOM9410 Regulatory Requirements of Biomedical Technology		6
<i>Biomedical Engineering Courses</i>		6

Year 5 Term 2

Course or Activity	Prerequisites	Credits
BIOM4952 Research Thesis B	BIOM4951	4
BIOM9332 Biocompatibility		6
BIOM9420 Clinical Laboratory Science		6

Year 5 Term 3

Course or Activity	Prerequisites	Credits
BIOM4953 Research Thesis C	BIOM4952	4
ENGG4999 Industrial Training		0
<i>Discipline Electives</i>		6
<i>Biomedical Engineering Courses</i>		6