

Bachelor Eng (Honours) / Master Biomedical Eng - 3768 - Electrical Engineering - ELECAH - T1 2026

Program: Eng (Hons) / MBiomedE [3768]

Year 1 Term 1

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

Year 1 Term 2

Course or Activity	Prerequisites	Credits
<i>PHYS1121 or PHYS1131</i>		6
<i>MATH1131 or MATH1141</i>		6
<i>COMP1911 or COMP1511</i>		6

Year 1 Term 3

Course or Activity	Prerequisites	Credits
COMP1521 Computer Systems Fundamentals		6
PHYS1231 Higher Physics 1B		6
<i>MATH1231 or MATH1241</i>		6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
ELEC2134 Circuits and Signals	ELEC1111	6
ELEC2141 Digital Circuit Design		6
PHSL2121 Principles of Physiology A		6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
DESN2000 Engineering Design and Professional Practice	ELEC2141, DESN1000, COMP1521	6
ELEC2133 Analogue Electronics	ELEC2134	6
MATH2099 Mathematics 2B		6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
MATH2069 Mathematics 2A		6

<i>Discipline Electives</i>		6
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Year 3 Term 1

Course or Activity	Prerequisites	Credits
ELEC3106 Electronics	ELEC2141, ELEC2133	6
ELEC3115 Electromagnetic Engineering	PHYS1231, MATH2069	6
TELE3113 Analogue and Digital Communications	ELEC2134	6

Year 3 Term 2

Course or Activity	Prerequisites	Credits
ELEC3105 Electrical Energy	ELEC3115, ELEC2134	6
ELEC3114 Control Systems	ELEC2134, MATH2099	6
ELEC3117 Electrical Engineering Design	ELEC2133	6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
ELEC3104 Digital Signal Processing	ELEC2134	6
<i>Discipline Electives</i>		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
ELEC4122 Strategic Leadership and Ethics		6
<i>Biomedical Engineering Courses</i>		6
<i>Electrical Engineering</i>		6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
<i>Biomedical Engineering (Dual Mode)</i>		6
<i>Biomedical Engineering Courses</i>		6
<i>Free Elective</i>		6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
ELEC4123 Electrical Design Proficiency		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>Biomedical Engineering Courses</i>		6
<i>Biomedical Engineering Courses</i>		6