

Bachelor Eng (Honours) / Master Biomedical Eng - 3768 - Telecommunications - TELEAH -T1 2026 Start

Program: Eng (Hons) / MBiomedE [3768]

Year 1 Term 1

| Course or Activity | Prerequisites | Credits |
|--|---------------|---------|
| ELEC1111 Electrical Circuit Fundamentals | | 6 |
| <i>MATH1131 or MATH1141</i> | | 6 |
| <i>PHYS1121 or PHYS1131</i> | | 6 |

Year 1 Term 2

| Course or Activity | Prerequisites | Credits |
|-----------------------------|---------------|---------|
| <i>COMP1911 or COMP1511</i> | | 6 |
| <i>MATH1231 or MATH1241</i> | | 6 |

Year 1 Term 3

| Course or Activity | Prerequisites | Credits |
|--|---------------|---------|
| COMP1521 Computer Systems Fundamentals | | 6 |
| DESN1000 Introduction to Engineering Design and Innovation | | 6 |
| PHYS1231 Higher Physics 1B | | 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 |
|------------------------------------|---------------|---------|
| ELEC3104 Digital Signal Processing | ELEC2134 | 6 |

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|-------------------------|--|---|
| MATH2069 Mathematics 2A | | 6 |
|-------------------------|--|---|

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 |
|--|--------------------|---------|
| ELEC3114 Control Systems | ELEC2134, MATH2099 | 6 |
| ELEC3117 Electrical Engineering Design | ELEC2133 | 6 |
| <i>Free Elective</i> | | 6 |

Year 3 Term 3

| Course or Activity | Prerequisites | Credits |
|-------------------------------------|---------------|---------|
| TELE3118 Network Technologies | DESN2000 | 6 |
| <i>Discipline (Depth) Electives</i> | | 6 |

Year 4 Term 1

| Course or Activity | Prerequisites | Credits |
|---|---------------|---------|
| ELEC4122 Strategic Leadership and Ethics | | 6 |
| <i>Biomedical Engineering (Dual Mode)</i> | | 6 |

Year 4 Term 2

| Course or Activity | Prerequisites | Credits |
|---------------------------------------|---------------|---------|
| BIOM9332 Biocompatibility | | 6 |
| <i>Biomedical Engineering Courses</i> | | 6 |
| <i>Biomedical Engineering Courses</i> | | 6 |

Year 4 Term 3

| Course or Activity | Prerequisites | Credits |
|--|--------------------|---------|
| ELEC4123 Electrical Design Proficiency | | 6 |
| TELE3119 Trusted Networks | TELE3118, TELE3113 | 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 |
| <i>Discipline (Depth) Electives</i> | | 6 |
| <i>Breadth Electives</i> | | 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 |