

Course progression map for 2026 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the [Handbook](#). Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 14 October 2025*

E3001 Bachelor of Engineering (Honours)

Specialisation – Biomedical engineering – *Biomedical devices stream*

Malaysia (Years 1-2) → Clayton (Years 3-4)

Year	Period	Units				
1 Malaysia	Sem 1 February	Common First Year				BIO1011 Blueprints for life *
	Sem 2 July					Elective
2 Malaysia	Sem 1 February	ENG2005 Advanced engineering mathematics	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	MMA2002 Solid mechanics 1	
	Sem 2 July	ECE2111 Signals and systems	CHE2161 Mechanics of fluids	ECE4179 Neural networks and deep learning	MEC3602 Biomedical microsystems	
3 Clayton	Sem 1 February	MCB2011 Molecular biology and the cell	DEV2011 Early human development from cells to tissues	MTE3204 Biomaterials 1	PHY2011 Neuroscience of communication, sensory and control systems	
	Sem 2 July	MCB2022 The dynamic cell	DEV2022 Human anatomy and development: Tissues and body systems	ECE4087 Medical technology innovation	PHY2042 Human physiology: Cardiovascular, respiratory and renal systems	
4 Clayton	Sem 1 February	ENG4701 Final year project A	Complete one Professional Practice domain unit	TRC3500 Sensors and artificial perception	Level 3 or 4 prescribed biomedical engineering technical elective	Clayton students enrol in ENG0001 Continuous Professional Development (0 credit points)
	Sem 2 July	ENG4702 Final year project B	ENG4105 Biomedical engineering integrated design	ECE4081 Medical instrumentation	MTE4596 Biomaterials 2	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- **BIO1011** – In Year 1 at the Malaysia campus, you must take BIO1011 in place of BMS1021. This unit fulfils the First Year breadth study requirement and is compulsory if you intend to specialise in biomedical engineering.
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- Engineering minors are not available within the Biomedical engineering specialisation.
- You are required to complete 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information, refer to the [CPD webpage](#).
- No more than 60 credit points of level 1 units can be credited to the engineering course.
- For enrolment advice, please consult a course adviser on your home campus.