

# PROGRAM PLAN

## BACHELOR OF MEDICAL ENGINEERING (HONOURS)

### Medical Devices Major

**PROGRAM OPTION:**  
Commencing in Semester 1

**START DATE:**  
2018 to 2020

**LOCATION:**  
Callaghan

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)

 [COURSE HANDBOOK](#)

**NAME:**

**STUDENT NO.:**

YEAR	SEMESTER	COURSE	DESCRIPTION	STATUS
YEAR 1	SEMESTER 1	ENGG1500	Introduction to Professional Engineering	CORE
		MATH1110	Mathematics for Engineering, Science and Technology 1	CORE
		--- OR ---		
		MATH1210	Mathematical Discovery 1	CORE
		HUBS1401	Human Bioscience	CORE
		ENGG1003	Introduction to Procedural Programming	COMPULSORY
YEAR 2	SEMESTER 2	HUBS1420	Terminology and Communication for Health Professions	CORE
		MATH1120	Mathematics for Engineering, Science and Technology 2	CORE
		--- OR ---		
		MATH1220	Mathematical Discovery 2	CORE
		ELEC1310	Introduction to Electrical Engineering	COMPULSORY
		ELEC1710	Digital and Computer Electronics 1	COMPULSORY
YEAR 2	SEMESTER 1	ENGG2500	Sustainable Engineering Practice	CORE
		CHEM1010	Introductory Chemistry I	CORE
		HUBS1105	Musculoskeletal Anatomy	CORE
		ELEC2320	Electrical and Electronic Circuits	COMPULSORY
YEAR 3	SEMESTER 1	ENGG3500	Managing Engineering Projects	CORE
		HUBS2206	Human Biochemistry and Cell Biology	CORE
		HUBS2505	Human Pathophysiology	CORE
		ELECTIVE	2000 level or higher	ELECTIVE
YEAR 4	SEMESTER 1	MENG4800A	Medical Engineering Project A	CORE
		ELEC3730	Digital and Computer Electronics 2	COMPULSORY
		DIRECTED		DIRECTED
		ELECTIVE	2000 level or higher	ELECTIVE
YEAR 4	SEMESTER 2	MENG4800B	Medical Engineering Project B <i>This course must be taken following MENG4800A (20 units)</i>	CORE
		ENGG4500	Engineering Complexity	CORE
		ELECTIVE	2000 level or higher	ELECTIVE

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE 12 WEEKS

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To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core and Compulsory courses – 260 units
- Directed courses – 20 units
- Electives – 40 units, visit the [Program Handbook](#) for more information
- Students must not exceed 120 units at 1000 level in this program
- It is also a requirement that students complete a total of 12 weeks of [industrial experience](#).
- The duration of this program is 4 year full-time (40 units per semester) or part-time equivalent.
- The maximum time to complete this program is 10 years.



Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#). Please refer to the [Program Handbook](#) for specific information on program structure. If you are intending varying from this program plan please seek advice from your [Program Advisor](#).

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### DIRECTED COURSES

Complete 20 units from:

**HUBS2203: Introductory Pharmacology**

**HUBS2503: Clinical Exercise Physiology**

**ENGG2440: Modelling and Control**

**PHYS2211: Modern Physics 1** (*replaces PHYS2170 in 2020*)

*PHYS2160: Modern Optics (no longer offered)*

**ELEC4210: Electronics Design**