

PROGRAM PLAN

BACHELOR OF MEDICAL ENGINEERING (HONOURS)

Medical Computing Major

PROGRAM OPTION:

Full time or Part time

START DATE:

Semester 1 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 Academic Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)

 [COURSE HANDBOOK](#)

NAME:

STUDENT NO.:

COURSE STATUS KEY

C = Completed

En = Enrolled

NS = Not Started

YEAR	SEMESTER	COURSE	DESCRIPTION	STATUS
YEAR 1	SEMESTER 1	ENGG1500	Introduction to Professional Engineering	CORE
	HUBS1401	Human Bioscience	CORE	
		MATH1110	Mathematics for Engineering, Science and Technology 1	CORE <i>Replaces option of MATH1110 OR MATH1210</i>
		SENG1110	Object Oriented Programming	COMPULSORY
YEAR 2	SEMESTER 1	CHEM1010	Introductory Chemistry I	CORE
	DIRECTED		DIRECTED	
		ELECTIVE*	2000 level or higher	ELECTIVE
		HUBS1105	Musculoskeletal Anatomy	CORE
YEAR 3	SEMESTER 1	COMP3330	Machine Intelligence	COMPULSORY
	ENGG3500	Managing Engineering Projects	CORE	
		HUBS2206	Human Biochemistry and Cell Biology	CORE
		HUBS2505	Human Pathophysiology	COMPULSORY
YEAR 4	SEMESTER 1	DIRECTED		DIRECTED
		ELECTIVE*	2000 level or higher	ELECTIVE
		ELECTIVE*	2000 level or higher	ELECTIVE
		MENG4800A	Medical Engineering Project A	CORE
YEAR 4	SEMESTER 2	ENGG4500	Engineering Complexity	CORE
		HUB3302	Bioinformatics and Functional Genomics	COMPULSORY <i>In 2021 changed from Sem 1 to Sem 2</i>
		MENG4800B	Medical Engineering Project B <i>This course must be taken following MENG4800A (20 units)</i>	CORE

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

Prior to 2021, students could choose to complete either MATH1110 and MATH1120, **OR** MATH1210 and MATH1220. Choice of maths courses is based on your assumed knowledge. To find out which MATH course you should enrol in please see the [Enrolling in Maths information](#). More information is in your [Program Handbook](#).

After 2021, the option to do MATH1210 and MATH1220 has been removed from the program. **From 2021 onwards:** 1) if you have not yet completed MATH1210 you must complete MATH1110; and 2) if you haven't completed MATH1220 then you must complete MATH1120.

- **Directed courses** – 20 units.
- * **Electives** – 40 units, visit the [Program Handbook](#) for more information. Students who do not meet the enrolment requisite for MATH1110 must take MATH1002. Only students who must take MATH1002 will be permitted to take 130 units at the 1000 level. For these students:
 - MATH1002 will count for 10 units of electives, the remaining electives (30 units total) must be taken at the 2000 level and above; and
 - these students *cannot undertake ELEC1710 and must choose 20 units of directed courses at the 2000 level and above.*
- 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.
- **Refer to the transition document in the [Program Handbook](#) for further information.**



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 [Academic Program Advisor](#).

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DIRECTED COURSES

Complete 20 units from:

COMP3340: Data Mining

HUBS2203: Introductory Pharmacology

SENG2050: Web Engineering

SENG2260: Human-Computer Interaction

ELEC1710: Digital and Computer Electronics 1 (*Students following the MATH1002 pathway cannot undertake ELEC1710 and must choose 20 units of courses at the 2000 level and above.*)

DIRECTED COURSE

Removed from the Program in 2021

If you have not already completed these courses prior to 2021 then you choose a different Directed course in the available list:

HUBS3411: Frontiers in Chronic Disease