

PROGRAM PLAN

BACHELOR OF MEDICAL ENGINEERING (HONOURS)

Medical Signal Analysis 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 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	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
	SEMESTER 1 ENGG2500 Sustainable Engineering Practice CORE	CHEM1010 Introductory Chemistry I CORE	HUBS1105 Musculoskeletal Anatomy CORE	PHYS1210 Advanced Physics I COMPULSORY		SEMESTER 2 HUBS2103 Neural and Visceral Anatomy CORE	PHYS1220 Advanced Physics II COMPULSORY	MATH2310 Calculus of Science and Engineering COMPULSORY
YEAR 3	SEMESTER 1 ENGG3500 Managing Engineering Projects CORE	HUBS2206 Human Biochemistry and Cell Biology CORE	DIRECTED DIRECTED	ELECTIVE 2000 level or higher ELECTIVE	SEMESTER 2 MENG3800 Medical Engineering Research CORE	ELEC2430 Circuits and Signals COMPULSORY	MENG3450 Medical Imaging COMPULSORY	DIRECTED DIRECTED
	SEMESTER 1 MENG4800A Medical Engineering Project A CORE	ELEC3400 Signal Processing COMPULSORY	HUB3302 Bioinformatics and Functional Genomics COMPULSORY	ELECTIVE 2000 level or higher ELECTIVE	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

ELEC2320: Electrical and Electronic Circuits

ENGG2440: Modelling and Control

PHYS2160: Modern Optics (no longer offered)

ELEC3540: Analog and Digital Communications

HUBS3512: Neurobiology of Mental Illness