

# PROGRAM PLAN

## BACHELOR OF MEDICAL ENGINEERING (HONOURS)

### Medical Computing Major

**PROGRAM OPTION:**  
Commencing in Semester 2

**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	<b>MATH1110</b> Mathematics for Engineering, Science and Technology 1 CORE  --- OR --- <b>MATH1210</b> Mathematical Discovery 1 CORE		<b>HUBS1420</b> Terminology and Communication for Health Professions  CORE	<b>SENG1110</b> Object Oriented Programming  COMPULSORY	<b>SENG1050</b> Web Technologies  COMPULSORY
		SEMESTER 2	<b>HUBS2103</b> Neural and Visceral Anatomy  CORE	<b>SENG1120</b> Data Structures  COMPULSORY	<b>COMP1140</b> Database and Information Management  COMPULSORY	<b>MATH1510</b> Discrete Mathematics  COMPULSORY
YEAR 2	SEMESTER 1		<b>MATH1120</b> Mathematics for Engineering, Science and Technology 2 CORE  --- OR --- <b>MATH1220</b> Mathematical Discovery 2 CORE	<b>ENGG1500</b> Introduction to Professional Engineering  CORE	<b>HUBS1401</b> Human Bioscience  CORE	<b>HUBS1105</b> Musculoskeletal Anatomy  CORE
		SEMESTER 2	<b>ENGG2500</b> Sustainable Engineering Practice  CORE	<b>CHEM1010</b> Introductory Chemistry I  CORE	<b>HUBS2206</b> Human Biochemistry and Cell Biology  CORE	<b>HUBS2505</b> Human Pathophysiology  COMPULSORY
YEAR 3	SEMESTER 1		<b>ENGG3500</b> Managing Engineering Projects  CORE	<b>HUB3302</b> Bioinformatics and Functional Genomics  COMPULSORY	<b>COMP3330</b> Machine Intelligence  COMPULSORY	<b>ELECTIVE</b> 2000 level or higher  ELECTIVE
		SEMESTER 2	<b>MENG3800</b> Medical Engineering Research  CORE	<b>COMP2230</b> Algorithms  COMPULSORY	<b>MENG3750</b> eHealth: Privacy and Security  COMPULSORY	<b>ELECTIVE</b> 2000 level or higher  ELECTIVE
YEAR 4	SEMESTER 1		<b>MENG4800A</b> Medical Engineering Project A  CORE	<b>ENGG4500</b> Engineering Complexity  CORE	<b>DIRECTED</b>  DIRECTED	<b>ELECTIVE</b> 2000 level or higher  ELECTIVE
		SEMESTER 2	<b>MENG4800B</b> Medical Engineering Project B <i>This course must be taken following MENG4800A (20 units)</i> CORE	<b>DIRECTED</b>  DIRECTED	<b>ELECTIVE</b> 2000 level or higher  ELECTIVE	
YEAR 5	SEMESTER 1					

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE 12 WEEKS

## PROGRAM PLAN

# BACHELOR OF MEDICAL ENGINEERING (HONOURS)

## Medical Computing Major

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](#).

## PROGRAM PLAN

# BACHELOR OF MEDICAL ENGINEERING (HONOURS)

## Medical Computing Major

### DIRECTED COURSES

Complete 20 units from:

**ELEC1710: Digital and Computer Electronics 1**

**HUBS2203: Introductory Pharmacology**

**SENG2050: Web Engineering**

**SENG2260: Human-Computer Interaction**

**COMP3340: Data Mining**

**HUBS3511: Frontiers in Chronic Disease**