

PROGRAM PLAN

BACHELOR OF MEDICAL ENGINEERING (HONOURS)

Medical Devices Major

PROGRAM OPTION:
Full time or Part time

START DATE:
Semester 2 2021

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.:

YEAR 1	SEMESTER 1	ENGG1003 Introduction to Procedural Programming CORE	ENGG1500 Introduction to Professional Engineering CORE	DIRECTED Human Bioscience/ Anatomy Directed Course DIRECTED	MATH1120 Mathematics for Engineering, Science and Technology 2 CORE
	SEMESTER 2	ELEC1310 Introduction to Electrical Engineering COMPULSORY	ELEC1710 Digital and Computer Electronics 1 COMPULSORY	MATH1110 Mathematics for Engineering, Science and Technology 1 CORE	PHYS1210 Advanced Physics I COMPULSORY
YEAR 2	SEMESTER 1	DIRECTED Human Bioscience/ Anatomy Directed Course DIRECTED	ELEC2430 Circuits and Signals CORE	MATH2310 Calculus of Science & Engineering CORE	PHYS1220 Advanced Physics II COMPULSORY
	SEMESTER 2	MENG3451 Medical Imaging & Signal Processing COMPULSORY	HUBS2507 Integrated Physiology for Biomedical Science COMPULSORY	ELEC3240 Analog Electronics COMPULSORY	ENGG2500 Sustainable Engineering Practice CORE
YEAR 3	SEMESTER 1	DIRECTED Human Bioscience/ Anatomy Directed Course DIRECTED	SENG2130 Systems Analysis and Design COMPULSORY	ELEC2320 Electrical and Electronic Circuits COMPULSORY	ELEC2720 Introduction to Embedded Computing COMPULSORY
	SEMESTER 2	MENG3200 Medical Instrumentation & Actuation COMPULSORY	MENG3800 Medical Engineering Research CORE	ENGG4500 Engineering Complexity CORE	MENG4800A Medical Engineering Project A CORE
YEAR 4	SEMESTER 1	ENGG3500 Managing Engineering Projects CORE	MENG3500 Medical Regulations CORE	HUBS2505 Human Pathophysiology COMPULSORY	ELEC3730 Digital and Computer Electronics 2 COMPULSORY
	SEMESTER 2	ELECTIVE ELECTIVE	MENG4210 Medical Electronics Design COMPULSORY	MENG4800B Medical Engineering Project B <i>This course must be taken following MENG4800A (20 units)</i> CORE	
YEAR 5	SEMESTER 1				

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** – 280 units
Enrolment in 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](#). Students who do not meet the enrolment requisite for MATH1110 must take MATH1002. More information is in your [Program Handbook](#). Note that due to course offerings it is recommended midyear commencing students take MATH1110 and MATH1120, and that you also consider the University's [Summer School](#) offerings following your first semester.
- **Directed Courses** – 30 units, including the following:
 - 10 units of Anatomy Directed Courses
 - 20 units of Human Bioscience Directed CoursesSee page the next page of this Program Plan, and the [Program Handbook](#) for more information on Directed Course options.
- **Electives** – 10 units, visit the [Program Handbook](#) for more information. Students who do not meet the enrolment requisite for MATH1110 must take MATH1002. For these students MATH1002 will count as their 10 units of electives.
- 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 [Academic Program Advisor](#).

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DIRECTED COURSES – Anatomy

Complete 10 units from:

HUBS1109 Anatomy for Biomedical Science (*Semester 1*)

HUBS1105 Musculoskeletal Anatomy (*Semester 2*)

It is strongly recommended that you complete your Anatomy Directed Course in your first year of study

DIRECTED COURSES – Human Bioscience

Complete 20 units, as follows:

HUBS1401 Human Bioscience (*Semester 1*) and;

HUBS1420 Terminology & Communication in Biomedicine (*Semester 1*)

OR

HUBS1403 Biomedical Science Part 1 (*Semester 1*) and;

HUBS1404 Biomedical Science Part 2 (*Semester 2*)