PROGRAM PLAN

BACHELOR OF MEDICAL ENGINEERING (HONOURS)

Medical Biomechanics 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	**CIVL1100** Fundamentals of Engineering Mechanics — COMPULSORY
YEAR 2	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	**MECH1110** Introduction to Mechanical Engineering Design — COMPULSORY	**MATH2310** Calculus of Science and Engineering — COMPULSORY	**MECH2710** Fluid Mechanics 1 — COMPULSORY
YEAR 3	SEMESTER 1	**ENGG3500** Managing Engineering Projects — CORE	**HUBS2206** Human Biochemistry and Cell Biology — CORE	**MECH2110** Mechanical Engineering Design 1 — COMPULSORY	**MECH2360** Dynamics of Machines — COMPULSORY
	SEMESTER 2	**MENG3800** Medical Engineering Research — CORE	**ENGG2440** Modelling and Control — COMPULSORY	**ELECTIVE** 2000 level or higher — ELECTIVE	**ELECTIVE** 2000 level or higher — ELECTIVE
YEAR 4	SEMESTER 1	**MENG4800A** Medical Engineering Project A — CORE	**MECH3400** Materials Science and Engineering 2 — COMPULSORY	**ELECTIVE** 2000 level or higher — ELECTIVE	**ELECTIVE** 2000 level or higher — ELECTIVE
	SEMESTER 2	**MENG4800B** Medical Engineering Project B *This course must be taken following MENG4800A* ***(20 units)*** — CORE		**ENGG4500** Engineering Complexity — CORE	**DIRECTED** — DIRECTED

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 – 270 units
- Directed courses – 10 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 10 units from:

MECH3110: Mechanical Engineering Design 2
MECH3720: Thermodynamics
MECH3780: Fluid Mechanics 2 and CFD