

Bachelor of Engineering (Mechanical) (Honours), Master of Engineering (Biomedical) 2023 Study Planner



Science & Engineering

Semester 1:

First Level	Semester 1	ENGR1721 Engineering Programming	ENGR1711 Engineering Design	PHYS1101 Physics 1A	MATH1121 Mathematics 1A
	Semester 2	ENGR1201 Electronics	ENGR1401 Professional Skills	ENGR1722 Engineering Materials and Systems	MATH1122 Mathematics 1B
Second Level	Semester 1	ENGR2711 Engineering Mathematics	ENGR2751 Fluid Mechanics	ENGR2781 Mechanical Design Project	MMED1005 How Your Body Works: Human Physiology and Structure
	NS2	ENGR2703 Mechanical Practice Certificate (0 units)			
	Semester 2	COMP2711 Computer Programming 2	ENGR2722 Signals and Systems	ENGR2771 Dynamics	PHYS2712 Thermodynamics and Energy Systems
Third Level	Semester 1	ENGR2741 Mechanics and Structures	ENGR2752 Mechanics of Machines	ENGR3761 Applied Thermo-Fluid Dynamics	MMED2931 Human Physiology
	Semester 2	ENGR2732 Biomechanics	ENGR2742 Biomedical Instrumentation	ENGR2812 Engineering Materials 2	ENGR7702 Biomaterials
Fourth Level	Semester 1	ENGR9721 Control Systems	ENGR9741 Physiological Measurement GE	ENGR9811 Solid Mechanics GE	MMED2933 Fundamental Neuroscience
	NS1	ENGR3750 Workplace Preparation (0 units)			
	Semester 2	ENGR9704 Engineering Management (NS2)	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
Fifth level	Semester 1	STEM9003 Research Methods for Engineering and ICT Masters	STEM9100A Masters Research Project (4.5/13.5 units)	ENGR7781 Innovation in Medical Devices	ENGR7811 Advanced Mechanical Design

	Semester 2	STEM9100B Masters Research Project (4.5/13.5 units)	STEM9100C Masters Research Project (4.5/13.5 units)	MMED2932 Integrative Human Physiology	Year 5 Option Topic (4.5 units)
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Semester 2:

First Level	Semester 2	ENGR1201 Electronics	ENGR1401 Professional Skills	ENGR1722 Engineering Materials and Systems	MATH1121 Mathematics 1A
	Semester 1	ENGR1711 Engineering Design	ENGR1721 Engineering Programming	PHYS1101 Physics 1A	MATH1122 Mathematics 1B
Second Level	Semester 2	COMP2711 Computer Programming 2	ENGR2722 Signals and Systems	ENGR2771 Dynamics	PHYS2712 Thermodynamics and Energy Systems
	Semester 1	ENGR2711 Engineering Mathematics	ENGR2751 Fluid Mechanics	ENGR2781 Mechanical Design Project	MMED1005 How Your Body Works; Human Physiology and Structure
	NS1	ENGR2703 Mechanical Practice Certificate (0 units)			
Third Level	Semester 2	ENGR2732 Biomechanics	ENGR2742 Biomedical Instrumentation	ENGR2812 Engineering Materials 2	ENGR7702 Biomaterials
	Semester 1	ENGR2741 Mechanics and Structures	ENGR2752 Mechanics of Machines	ENGR3761 Applied Thermo-Fluid Dynamics	MMED2931 Human Physiology
	NS1	ENGR3750 Workplace Preparation (0 units)			
Fourth Level	Semester 2	ENGR9704 Engineering Management (NS2)	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
	Semester 1	ENGR9721 Control Systems GE	ENGR9741 Physiological Measurement GE	ENGR9811 Solid Mechanics GE	MMED2933 Fundamental Neuroscience
Fifth level	Semester 2	STEM9003 Research Methods for Engineering and ICT Masters	STEM9100A Masters Research Project (4.5/13.5 units)	MMED2932 Integrative Human Physiology	Year 5 Option Topic (4.5 units)

Semester 1	STEM9100B Masters Research Project (4.5/13.5 units)	STEM9100C Masters Research Project (4.5/13.5 units)	ENGR7781 Innovation in Medical Devices	ENGR7811 Advanced Mechanical Design
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Key:

Core Topics	Compulsory topic
Option Topics	A choice from a list of specified topics (please refer to course rule)

Please note:

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official [Course Rule](#).
- Topic information for all topics, including pre-requisites can be found on the [Topic Page](#)
- General enrolment assistance is available via [Ask Flinders](#)
- For specific course advice e-mail: courseadvice.SE@flinders.edu.au