Bachelor of Engineering (Mechanical) (Honours), Master of Engineering (Biomedical) 2024 Study Planner

Flinders University
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)

This guide is correct at time of publishing but is subject to change October 2023

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

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