Flinders UNIVERSITY
College of Science & Engineering

Room 1304, Level 1 Physical Sciences Building,
GPO Box 2100
Adelaide SA 5001

P: +61 8201 7700
CSE.enquiries@flinders.edu.au
flinders.edu.au/se

2021 Study Plan Template

Bachelor of Engineering (Mechanical) (Honours), Master of Engineering (Biomedical)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 180 units of study according to the official course rule available at https://students.flinders.edu.au/my-course/course-rules/undergrad/bengmchmeb.

Students are responsible for planning their Core and Option Topics ahead to ensure they meet the topic prerequisites.

A list of all topics, including topic prerequisite information and alternate study period availabilities, is available at Topics 2021

Semester 1, 2021 start:

Year 1	**S1**	ENGR1721 Engineering Programming	ENGR1711 Engineering Design	ENGR1732 Engineering Mechanics	MATH1121 Mathematics 1A
	S2	ENGR1201 Electronics	ENGR1401 Professional Skills	ENGR1722 Engineering Physics and Materials	MATH1122 Mathematics 1B
Year 2	**S1**	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)			
	S2	COMP2711 Computer Programming 2	ENGR2722 Analysis of Engineering Systems	ENGR2771 Dynamics	PHYS2712 Thermodynamics and Energy Systems
Year 3	**S1**	ENGR2741 Mechanics and Structures	ENGR2752 Mechanics of Machines	ENGR3761 Applied Thermo-Fluid Dynamics	MMED2931 Human Physiology
	S2	ENGR2732 Biomechanics	ENGR2742 Biomedical Instrumentation	ENGR2812 Engineering Materials	ENGR7702 Biomaterials

Year 4	**S1**	ENGR9721 Control Systems	ENGR9741 Physiological Measurement GE	ENGR9811 Solid Mechanics GE	MMED2933 Fundamental Neuroscience
	NS1	ENGR3750 Workplace preparation (0 units)			
	S2	ENGR9704 Engineering Management	ENGR3700 Engineering Practicum or ENGR3710 International Engineering Practicum (13.5 units)		
Year 5	**S1**	ENGR9700A Masters Thesis (4.5/18 units)	ENGR9700B Masters Thesis (4.5/18 units)	ENGR7781 Innovation in Medical Devices	ENGR7811 Advanced Mechanical Design
	S2	ENGR9700C Masters Thesis (4.5/18 units)	ENGR9700D Masters Thesis (4.5/18 units)	MMED2932 Integrative Human Physiology	Year 5 Option Topic^:

Semester 2, 2021 start:

Year 1	**S2**	ENGR1201 Electronics	ENGR1401 Professional Skills	ENGR1732 Engineering Mechanics	MATH1121 Mathematics 1A
	S1	ENGR1711 Engineering Design	ENGR1721 Engineering Programming	ENGR1722 Engineering Physics and Materials	MATH1122 Mathematics 1B
Year 2	**S2**	COMP2711 Computer Programming 2	ENGR2722 Analysis of Engineering Systems	ENGR2771 Dynamics	PHYS2712 Thermodynamics and Energy Systems
	NS1	ENGR2703 Mechanical Practice Certificate (0 units)			
	S1	ENGR2711 Engineering Mathematics	ENGR2751 Fluid Mechanics	ENGR2781 Mechanical Design Project	MMED1005 How Your Body Works; Human Physiology and Structure
Year 3	**S2**	ENGR2732 Biomechanics	ENGR2742 Biomedical Instrumentation	ENGR2812 Engineering Materials	ENGR7702 Biomaterials
	S1	ENGR2741 Mechanics and Structures	ENGR2752 Mechanics of Machines	ENGR3761 Applied Thermo-Fluid Dynamics	MMED2931 Human Physiology
	NS1	ENGR3750 Workplace Preparation (0 units)			

Year 4	**S2**	ENGR9704 Engineering Management	ENGR3700 Engineering Practicum or ENGR3710 International Engineering Practicum (13.5 units)		
	S1	ENGR9721 Control Systems GE	ENGR9741 Physiological Measurement GE	ENGR9811 Solid Mechanics GE	MMED2933 Fundamental Neuroscience
Year 5	**S2**	ENGR9700A Masters Thesis (4.5/18 units)	ENGR9700B Masters Thesis (4.5/18 units)	MMED2932 Integrative Human Physiology	Year 5 Option^:
	S1	ENGR9700C Masters Thesis (4.5/18 units)	ENGR9700D Masters Thesis (4.5/18 units)	ENGR7781 Innovation in Medical Devices	ENGR7811 Advanced Mechanical Design

Key:	
Core Topic	Compulsory topic
Option Topic	A choice from a list of specified topics (see below)

Year 5 Option Topic^:
ENGR7707 Medical Physics (4.5 units) (S1 only)
ENGR7771 Rehabilitation and Assistive Technologies (4.5 units) (S2 only)
ENGR7921 Materials Selection in Design (4.5 units) (S1 only)
ENGR7961 Finite Element Methods (4.5 units) (S1 only)
ENGR8841 Hydrostatics (4.5 units) (S1 only)
ENGR7701 Advanced Biomechanics (4.5 units) (S2 only)
ENGR7721 Advanced Vibration Analysis (4.5 units) (S2 only)
MMEDXXXX Medicine (MMED) topics with approval from the Course Coordinator (4.5 units)