

2021 Study Plan Template

Bachelor of Engineering (Biomedical) (Honours)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 144 units of study according to the official course rule available at <https://students.flinders.edu.au/my-course/course-rules/undergrad/bengbh>

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	MATH1121 Mathematics 1A	ENGR1732 Engineering Mechanics	MMED1005 How your Body Works: Human Physiology and Structure
	S2	ENGR1201 Electronics	MATH1122 Mathematics 1B	ENGR1722 Engineering Physics and Materials 1	ENGR1401 Professional Skills
Year 2	S1	ENGR1711 Engineering Design	ENGR2711 Engineering Mathematics	MMED2931 Human Physiology	Year 2 Option topic^: Electronics based or Mechanics based
	S2	ENGR2722 Analysis of Engineering Systems	ENGR2732 Biomechanics	ENGR2742 Biomedical Instrumentation	ENGR2772 Sensors and Actuators
Year 3	S1	COMP2711 Computer Programming 2	ENGR3741 Physiological Measurement	Year 3 Option topic^^ Electronics based or Mechanics based	Year 3 Option topic^^ Electronics based or Mechanics based
	NS1	ENGR3750 Workplace Preparation (0 units)			
	S2	ENGR3704 Project Management for Engineering and Science	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
Year 4	S1	ENGR7700A Honours Thesis (4.5/18units)	ENGR7700B Honours Thesis (4.5/18units)	ENGR7781 Innovation in Medical Devices	Year 4 Option topic ^^
		ENGR7700C Honours Thesis (4.5/18units)	ENGR7700D Honours Thesis (4.5/18units)	ENGR9742 Systems Engineering	Year 4 Option topic ^^

Semester 2, 2021 start:

Year 1	S2	ENGR1201 Electronics	MATH1121 Mathematics 1A	ENGR1722 Engineering Physics and Materials 1	ENGR1401 Professional Skills
	S1	ENGR1721 Engineering Programming	MATH1122 Mathematics 1B	ENGR1732 Engineering Mechanics	MMED1005 How your Body Works: Human Physiology and Structure
Year 2	S2	ENGR2722 Analysis of Engineering Systems	ENGR2732 Biomechanics	ENGR2742 Biomedical Instrumentation	ENGR2772 Sensors and Actuators
	NS1	ENGR3750 Workplace Preparation (0 units)			
	S1	ENGR1711 Engineering Design	ENGR2711 Engineering Mathematics	MMED2931 Human Physiology	Year 2 Option topic^: Electronics based or Mechanics based
Year 3	S2	ENGR3704 Project Management for Engineering and Science	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
	S1	COMP2711 Computer Programming 2	ENGR3741 Physiological Measurement	Year 3 Option topic^^ Electronics based or Mechanics based	Year 3 Option topic^^ Electronics based or Mechanics based
Year 4	S2	ENGR7700A Honours Thesis (4.5/18units)	ENGR7700B Honours Thesis (4.5/18units)	ENGR9742 Systems Engineering	Year 4 Option topic ^^^
	S1	ENGR7700C Honours Thesis (4.5/18units)	ENGR7700D Honours Thesis (4.5/18units)	ENGR7781 Innovation in Medical Devices	Year 4 Option topic ^^^

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

^ENGR Year 2 Option Topics:

Electronics based
 ENGR2731 Electronic Circuits (4.5 units) S1
 Mechanics based
 ENGR2741 Mechanics and Structures (4.5units) S1

^^ENGR Year 3 Option Topics:

Electronics based
 ENGR2721 Microprocessors (4.5 units) S1
 ENGR3711 Control Systems (4.5 units) S1
 ENGR3721 Signal Processing (4.5 units) S1
 Mechanics based
 ENGR2751 Fluid Mechanics (4.5 units) S1
 ENGR3711 Control Systems (4.5 units) S1
 ENGR3751 Solid Mechanics (4.5 units) S1

^^^ENGR Year 4 Option Topics

ENGR7701 Advanced Biomechanics (4.5 units)
 ENGR7702 Biomaterials (4.5 units)
 ENGR7707 Medical Physics (4.5 units)
 ENGR7709 Real Time Systems (4.5 units)
 ENGR7711 Advanced Control Systems (4.5 units)
 ENGR7771 Rehabilitation and Assistive Technologies (4.5 units)
 ENGR7961 Finite Element Methods (4.5 units)
 MMEDxxxx Medicine (MMED) topics with approval from the Course Coordinator (4.5 units)