

## 2021 Study Plan Template

### Bachelor of Engineering (Biomedical) (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/benghmeb>.

Students are responsible for planning their Core Option and Elective 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 [Topic 2021](#)

#### Semester 1, 2021 start:

Year 1	S1	<b>ENGR1721</b> Engineering Programming	<b>ENGR1732</b> Engineering Mechanics	<b>MMED1005</b> How your body works: Human Physiology and Structure	<b>MATH1121</b> Mathematics 1A
	S2	<b>ENGR1201</b> Electronics	<b>ENGR1401</b> Professional Skills	<b>ENGR1722</b> Engineering Physics and Materials	<b>MATH1122</b> Mathematics 1B
Year 2	S1	<b>ENGR1711</b> Engineering Design	<b>ENGR2711</b> Engineering Mathematics	<b>MMED2931</b> Human Physiology	<b>Year 2 Option Topic^:</b> Electronics based or Mechanics based
	S2	<b>ENGR2722</b> Analysis of Engineering Systems	<b>ENGR2732</b> Biomechanics	<b>ENGR2742</b> Biomedical Instrumentation	<b>ENGR2772</b> Sensors and Actuators
Year 3	S1	<b>MMED3932</b> Body Systems	<b>ENGR3741</b> Physiological Measurement	<b>Year 3 Option Topic^^:</b> Electronics based or Mechanics based	<b>Year 3 Option Topic^^:</b> Electronics based or Mechanics based
	S2	<b>ENGR7702</b> Biomaterials	<b>MMED2932</b> Integrative Human Physiology	<b>COMP2711</b> Computer Programming 2	<b>Elective Topic</b> (4.5 units)

Year 4	S1	<b>ENGR9721</b> Control Systems GE	<b>ENGR7781</b> Innovation in Medical Devices	<b>Year 4 Option Topics<sup>^^^</sup></b> (4.5 units)	<b>Year 4 Option Topics<sup>^^^</sup></b> (4.5 units)
	NS1	<b>ENGR3750</b> Workplace Preparation (0 units)			
	S2	<b>ENGR9704</b> Engineering Management	<b>ENGR3700</b> Engineering Practicum (13.5 units) <b>OR</b> <b>ENGR3710</b> International Engineering Practicum (13.5 units)		
Year 5	S1	<b>ENGR9700A</b> Masters Thesis (4.5/18 units)	<b>ENGR9700B</b> Masters Thesis (4.5/18 units)	<b>Year 5 Option Topic<sup>^^^^</sup></b> (4.5 units)	<b>Year 5 Option Topic<sup>^^^^</sup></b> (4.5 units)
	S2	<b>ENGR9700C</b> Masters Thesis (4.5/18 units)	<b>ENGR9700D</b> Masters Thesis (4.5/18 units)	<b>ENGR9742</b> Systems Engineering	<b>Year 5 Option Topic<sup>^^^^</sup></b> (4.5 units)

**Semester 2, 2021 start:**

Year 1	S2	<b>ENGR1201</b> Electronics	<b>ENGR1721</b> Engineering Programming	<b>ENGR1722</b> Engineering Physics and Materials	<b>MATH1121</b> Mathematics 1A
	S1	<b>ENGR1401</b> Professional Skills	<b>ENGR1732</b> Engineering Mechanics	<b>MMED1005</b> How your body works: Human Physiology and Structure	<b>MATH1122</b> Mathematics 1B
Year 2	S2	<b>ENGR2722</b> Analysis of Engineering Systems	<b>ENGR2732</b> Biomechanics	<b>ENGR2742</b> Biomedical Instrumentation	<b>ENGR2772</b> Sensors and Actuators
	S1	<b>ENGR1711</b> Engineering Design	<b>ENGR2711</b> Engineering Mathematics	<b>MMED2931</b> Human Physiology	<b>Year 2 Option Topic<sup>^</sup>:</b> Electronics based or Mechanics based
Year 3	S2	<b>ENGR7702</b> Biomaterials	<b>MMED2932</b> Integrative Human Physiology	<b>COMP2711</b> Computer Programming 2	<b>Elective Topic</b> (4.5 units)
	S1	<b>MMED3932</b> Body Systems	<b>ENGR3741</b> Physiological Measurement	<b>Year 3 Option Topic<sup>^^</sup>:</b> Electronics based or Mechanics based	<b>Year 3 Option Topic<sup>^^</sup>:</b> Electronics based or Mechanics based
	NS1	<b>ENGR3750</b> Workplace Preparation (0 units)			

Year 4	S2	ENGR9704 Engineering Management	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
	S1	ENGR9721 Control Systems GE	ENGR7781 Innovation in Medical Devices	Year 4 Option Topics <sup>^^^</sup> (4.5 units)	Year 4 Option Topics <sup>^^^</sup> (4.5 units)
Year 5	S2	ENGR9700A Masters Thesis (4.5/18 units)	ENGR9700B Masters Thesis (4.5/18 units)	ENGR9742 Systems Engineering	Year 5 Option Topic <sup>^^^^</sup> (4.5 units)
	S1	ENGR9700C Masters Thesis (4.5/18 units)	ENGR9700D Masters Thesis (4.5/18 units)	Year 5 Option Topic <sup>^^^^</sup> (4.5 units)	Year 5 Option Topic <sup>^^^^</sup> (4.5 units)

<b>Key:</b>	
<b>Core Topic</b>	Compulsory topic
<b>Option Topic</b>	A choice from a list of specified topics (see below)
<b>Elective Topic</b>	Any topic offered by the University at the appropriate year level, provided entry and course requirements are met and that no more than 45 units of First Year topics are included in the 108-unit program.

<b>Year 2 Option Topic<sup>^</sup>:</b> <b>Electronics based:</b> ENGR2731 Electronic Circuits (4.5 units) (S1) <b>Mechanics based:</b> ENGR2741 Mechanics and Structures (4.5 units) (S1)	<b>Year 3 Option Topic<sup>^^</sup>:</b> <b>Electronics based:</b> ENGR2721 Microprocessors (4.5 units) (S1) ENGR3721 Signal Processing (4.5 units) (S1) <b>Mechanics based:</b> ENGR2751 Fluid Mechanics (4.5 units) (S1) ENGR3751 Solid Mechanics (4.5 units) (S1)
<b>Year 4 Option Topics<sup>^^^</sup>:</b> ENGR7701 Advanced Biomechanics (4.5 units) (S2) ENGR7707 Medical Physics (4.5 units) (S1) ENGR7771 Rehabilitation and Assistive Technologies (4.5 units) (S2) ENGR7961 Finite Element Methods (4.5 units) (S1) MMEDXXX Medicine (MMED) topics with approval from the Course Coordinator (4.5 units)	<b>Year 5 Option Topics<sup>^^^^</sup>:</b> ENGR7701 Advanced Biomechanics (4.5 units) (S2) ENGR7707 Medical Physics (4.5 units) (S1) ENGR7711 Advanced Control Systems (4.5 units) (S1) ENGR7771 Rehabilitation and Assistive Technologies (4.5 units) (S2) ENGR7961 Finite Element Methods (4.5 units) (S1) MMEDXXX Medicine (MMED) topics with approval from the Course Coordinator (4.5 units)