

2021 Study Plan Template

Bachelor of Engineering (Mechanical) (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/bengmch>

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	ENGR2741 Mechanics and Structures	ENGR2751 Fluid Mechanics	ENGR2781 Mechanical Design Project
	NS1	ENGR2703 Mechanical Practice Certificate			
	S2	ENGR2722 Analysis of Engineering Systems	ENGR2771 Dynamics	ENGR2812 Engineering Materials	PHYS2712 Thermodynamics and Energy Systems
Year 3	S1	ENGR2752 Mechanics of Machines	ENGR3711 Control Systems	ENGR3751 Solid Mechanics	ENGR3761 Applied Thermo--Fluid Dynamics
	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		
Year 4	S1	ENGR7700A Honours Thesis	ENGR7700B Honours Thesis	ENGR7811 Advanced Mechanical Design	Year 4 Option topic ^
	S2	ENGR7700C Honours Thesis	ENGR7700D Honours Thesis	ENGR9742 Systems Engineering	Year 4 Option topic ^

Semester 2, 2021 start:

Year 1	S2	ENGR1401 Professional Skills	ENGR1201 Electronics	ENGR1722 Engineering Physics and Materials	MATH1121 Mathematics 1A
	S1	ENGR1721 Engineering Programming	ENGR1711 Engineering Design	ENGR1732 Engineering Mechanics	MATH1122 Mathematics 1B
	NS1	ENGR2703 Mechanical Practice Certificate			
Year 2	S2	ENGR2722 Analysis of Engineering Systems	ENGR2771 Dynamics	ENGR2812 Engineering Materials	ENGR9742 Systems Engineering
	S1	ENGR2711 Engineering Mathematics	ENGR2741 Mechanics and Structures	ENGR2751 Fluid Mechanics	ENGR2781 Mechanical Design Project
	NS1	ENGR3750 Workplace Preparation (0 units)			
Year 3	S2	ENGR3704 Project Management for Engineering and Science	ENGR3700 Engineering Practicum (13.5 units) or ENGR3710 International Engineering Practicum		
	S1	ENGR2752 Mechanics of Machines	ENGR3711 Control Systems	ENGR3751 Solid Mechanics	Year 4 Option topic ^
Year 4	S2	ENGR7700A Honours Thesis	ENGR7700B Honours Thesis	Year 4 Option topic ^	PHYS2712 Thermodynamics and Energy Systems
	S1	ENGR7700C Honours Thesis	ENGR7700D Honours Thesis	ENGR7811 Advanced Mechanical Design	ENGR3761 Applied Thermo-Fluid Dynamics

Core Topic
Option Topic

^ ENGR Year 4 Option Topics:

- ENGR7702 Biomaterials (4.5 units)**
- ENGR7711 Advanced Control Systems (4.5 units)**
- ENGR7721 Advanced Vibration Analysis (4.5 units)**
- ENGR7861 Applied Acoustics (4.5 units)**
- ENGR7891 Fatigue and Fracture Analysis (4.5 units)**
- ENGR7921 Materials Selection in Design (4.5 units)**
- ENGR7961 Finite Element Methods (4.5 units)**
- ENGR8732 Biomechanics GE (4.5 units)**
- ENGR8841 Hydrostatics GE (4.5 units)**