

2021 Study Plan Template

Bachelor of Science (Honours) (Energy and Advanced Materials)

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 Bachelor of Science (Honours) (Energy and Advanced Materials) course rule available at <https://students.flinders.edu.au/my-course/course-rules/undergrad/bscs/bschs-enam>

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 [2021 Topics](#).

Semester 1 start:

Year 1	S1	MATH1121 Mathematics 1A	PHYS1101 Fundamental Physics I	STEM1001 Nature of STEM	^ Elective Topic
	S2	MATH1122 Mathematics 1B	PHYS1102 Fundamental Physics II	ENGR1722 Engineering Physics and Materials	^ Elective Topic
Year 2	S1	ENGR2711 Engineering Mathematics	PHYS2701 Quantum Concepts	PHYS2702 Classical Physics	^ Elective Topic
	S2	ENGR2722 Analysis of Engineering Systems	ENGR2812 Engineering Materials 2	PHYS2712 Thermodynamics and Energy Systems	^ Elective Topic
Year 3	S1	ENGR2861 Electromagnetics and Electromagnetic Waves	PHYS3711 Quantum Physics	^ Elective Topic	^ Elective Topic
	S2	MATH3711 Complex Analysis	MATH3712 Partial Differential Equations	PHYS3701 Nuclear and Statistical Physics	PHYS3702 Solid State Physics and Optoelectronics
Year 4	S1	STEM7001 Honours Research Methods	CPES7711 Advanced Techniques in Chemical and Physical Science	CPES7721 Advanced Chemical and Physical Science	STEM7000A Honours Research Project in STEM
	S2	STEM7000B Honours Research Project in STEM	STEM7000C Honours Research Project in STEM	STEM7000D Honours Research Project in STEM	STEM7000E Honours Research Project in STEM

Semester 2 start:

Year 1	S2	ENGR1722 Engineering Physics and Materials	MATH1121 Mathematics 1A	^ Elective Topic	^ Elective Topic
	Summer Semester			MATH1122 Mathematics 1B	
	S1	PHYS1101 Fundamental Physics I	STEM1001 Nature of STEM	ENGR2711 Engineering Mathematics	^ Elective Topic
Year 2	S2	PHYS1102 Fundamental Physics II	ENGR2722 Analysis of Engineering Systems	ENGR2812 Engineering Materials 2	MATH3711 Complex Analysis
	S1	PHYS2701 Quantum Concepts	PHYS2702 Classical Physics	^ Elective Topic	^ Elective Topic
Year 3	S2	PHYS2712 Thermodynamics and Energy Systems	MATH3712 Partial Differential Equations	PHYS3701 Nuclear and Statistical Physics	PHYS3702 Solid State Physics and Optoelectronics
	S1	ENGR2861 Electromagnetics and Electromagnetic Waves	PHYS3711 Quantum Physics	^ Elective Topic	
Year 4	S2	STEM7001 Honours Research Methods	STEM7000A Honours Research Project in STEM	STEM7000B Honours Research Project in STEM	STEM7000C Honours Research Project in STEM
	S1	CPES7711 Advanced Techniques in Chemical and Physical Science	CPES7721 Advanced Chemical and Physical Science	STEM7000D Honours Research Project in STEM	STEM7000E Honours Research Project in STEM

Key:	
Core Topic	Compulsory topic
Option Topic	A choice from a list of specified topics
^ Elective Topic	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. Please refer to the course rule for a list of recommended electives. Students are encouraged to enroll in STEM3001 Science Connect as a third-year elective