

## 2021 Study Plan Template

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

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 108 units of study according to the official Bachelor of Science (Energy and Advanced Materials) course rule available at <https://students.flinders.edu.au/my-course/course-rules/undergrad/bscs/bscs-egmt>

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 <http://www.flinders.edu.au/topic>.

#### Semester 1 start:

Year 1	S1	<b>MATH1121</b> Mathematics 1A	<b>PHYS1101</b> Fundamental Physics I	<b>STEM1001</b> Nature of STEM	^ Elective Topic
	S2	<b>MATH1122</b> Mathematics 1B	<b>PHYS1102</b> Fundamental Physics II	<b>ENGR1722</b> Engineering Physics and Materials	^ Elective Topic
Year 2	S1	<b>ENGR2711</b> Engineering Mathematics	<b>PHYS2701</b> Quantum Concepts	<b>PHYS2702</b> Classical Physics	^ Elective Topic
	S2	<b>ENGR2722</b> Analysis of Engineering Systems	<b>ENGR2812</b> Engineering Materials 2	<b>PHYS2712</b> Thermodynamics and Energy Systems	^ Elective Topic
Year 3	S1	<b>ENGR2861</b> Electromagnetics and Electromagnetic Waves	<b>PHYS3711</b> Quantum Physics	^ Elective Topic	^ Elective Topic
	S2	<b>MATH3711</b> Complex Analysis	<b>MATH3712</b> Partial Differential Equations	<b>PHYS3701</b> Nuclear and Statistical Physics	<b>PHYS3702</b> Solid State Physics and Optoelectronics

Semester 2 start:

Year 1	S2	<b>ENGR1722</b> Engineering Physics and Materials	<b>MATH1121</b> Mathematics 1A	^ Elective Topic	^ Elective Topic
	Summer Semester			<b>MATH1122</b> Mathematics 1B	
	S1	<b>PHYS1101</b> Fundamental Physics I	<b>STEM1001</b> Nature of STEM	<b>ENGR2711</b> Engineering Mathematics	^ Elective Topic
Year 2	S2	<b>PHYS1102</b> Fundamental Physics II	<b>ENGR2722</b> Analysis of Engineering Systems	<b>ENGR2812</b> Engineering Materials 2	<b>MATH3711</b> Complex Analysis
	S1	<b>PHYS2701</b> Quantum Concepts	<b>PHYS2702</b> Classical Physics	^ Elective Topic	^ Elective Topic
Year 3	S2	<b>PHYS2712</b> Thermodynamics and Energy Systems	<b>MATH3712</b> Partial Differential Equations	<b>PHYS3701</b> Nuclear and Statistical Physics	<b>PHYS3702</b> Solid State Physics and Optoelectronics
	S1	<b>ENGR2861</b> Electromagnetics and Electromagnetic Waves	<b>PHYS3711</b> Quantum Physics	^ Elective Topic	

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 <b>STEM3001 Science Connect</b> as a third-year elective