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2021 Study Plan Template

Bachelor of Science (Honours) (Physics)

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) (Physics) course rule available at https://students.flinders.edu.au/my-course/course-rules/undergrad/bscs/bschs-phyc.

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	**CHEM Year 1 Option** *** Select one topic from list below	
	S2	**MATH1122** Mathematics 1B	**PHYS1102** Fundamental Physics II	**^Elective**	**^Elective**	
Year 2	**S1**	**MATH2702** Linear Algebra and Differential Equations	**MATH2711** Several Variable Calculus	**PHYS2701** Quantum Concepts	**PHYS2702** Classical Physics	
	S2	**MATH2722** Numerical Analysis	**PHYS2712** Thermodynamics and Energy Systems	**^Elective**	**^Elective**	
Year 3	**S1**	**ENGR2861** Electromagnetics and Electromagnetic Waves	**PHYS3711** Quantum Physics	**^Elective**	**MATH Option** # Select one topic from list below **(S1 or S2)**	**ENGR2861** Electromagnetics and Electromagnetic Waves
	S2	**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 (to complete in 3 years):

Year 1	**S2**	**MATH1121** Mathematics 1A	**CHEM Year 1 Option** CHEM1101 only	**^Elective**	**^Elective**	
	SU	**MATH1122** Mathematics 1B				
	S1	**PHYS1101** Fundamental Physics I	**STEM1001** Nature of STEM	**MATH2702** Linear Algebra and Differential Equations	**MATH2711** Several Variable Calculus	
Year 2	**S2**	**PHYS1102** Fundamental Physics II	**MATH2722** Numerical Analysis	**MATH3712** Partial Differential Equations	**MATH Option** # Select one topic from list below **(S1 or S2)**	**PHYS1102** Fundamental Physics II **PHYS2701** Quantum Concepts
	S1	**PHYS2701** Quantum Concepts	**PHYS2702** Classical Physics	**ENGR2861** Electromagnetics and Electromagnetic Waves		
Year 3	**S2**	**PHYS2712** Thermodynamics and Energy Systems	**PHYS3701** Nuclear and Statistical Physics	**PHYS3702** Solid State Physics and Optoelectronics	**^Elective**	
	S1	**PHYS3711** Quantum Physics	**^Elective**	**^Elective**		
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 (see below)
^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.

***** CHEM Year 1 Option Topics:**	**# MATH Year 3 Option Topics:**
CHEM1101 Chemical Structure and Bonding	MATH3702 Methods of Applied Mathematics (S1)
CHEM1201 General Chemistry	MATH3711 Complex Analysis (S2)