

Bachelor of Science (Honours) (Physics) 2023 Study Planner

Semester 1 Start:

First Level	Semester 1	MATH1121 Mathematics 1A	PHYS1101 Physics 1A	STEM1001 Nature of STEM	Elective	
	Semester 2	MATH1122 Mathematics 1B	PHYS1102 Physics 1B	Elective	Elective	
Second Level	Semester 1	MATH2702 Linear Algebra and Differential Equations	MATH2711 Several Variable Calculus	PHYS2702 Classical Physics	Elective	
	Semester 2	MATH2722 Numerical Analysis	PHYS2001 Quantum and Nuclear Physics	PHYS2712 Thermodynamics and Energy Systems	Elective	
Third Level	Semester 1	ENGR2861 Electromagnetics and Electromagnetic Waves	Elective	Elective	MATH Option # Select one topic from list below (S1 or S2)	STEM Option # Select one topic from list below (S1 or S2)
	Semester 2	MATH3712 Partial Differential Equations	PHYS3701 Nuclear and Statistical Physics	PHYS3702 Solid State Physics and Optoelectronics		
Fourth Level	Semester 1	STEM7001 Honours Research Methods	CPES7711 Advanced Techniques in Chemical and Physical Science	CPES7721 Advanced Chemical and Physical Science	STEM7000A Honours Research Project in STEM	
	Semester 2	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)

First Level	Semester 2	MATH1121 Mathematics 1A	Elective	Elective	Elective	
	SU	MATH1122 Mathematics 1B				
	Semester 1	PHYS1101 Fundamental Physics I	STEM1001 Nature of STEM	MATH2702 Linear Algebra and Differential Equations	MATH2711 Several Variable Calculus	
Second Level	Semester 2	PHYS1102 Fundamental Physics II	MATH2722 Numerical Analysis	MATH3712 Partial Differential Equations	MATH Option # Select one topic from list below (S1 or S2)	STEM Option # Select one topic from list below (S1 or S2)
	Semester 1	PHYS2001 Quantum and Nuclear Physics	PHYS2702 Classical Physics	ENGR2861 Electromagnetics and Electromagnetic Waves		
Third Level	Semester 2	PHYS2712 Thermodynamics and Energy Systems	PHYS3701 Nuclear and Statistical Physics	PHYS3702 Solid State Physics and Optoelectronics	Elective	
	Semester 1	Elective	Elective	Elective		
Fourth Level	Semester 2	STEM7001 Honours Research Methods	STEM7000A Honours ResearchProject in STEM	STEM7000B Honours ResearchProject in STEM	STEM7000C Honours ResearchProject in STEM	
	Semester 1	CPES7711 Advanced Techniques in Chemical and Physical Science	CPES7721 Advanced Chemical and Physical Science	STEM7000D Honours ResearchProject in STEM	STEM7000E Honours ResearchProject in STEM	

Key:

Core Topics	Compulsory topic
Option Topics	A choice from a list of specified topics (please refer to course rule)
Elective	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.
# MATH Year 3 Option Topics: MATH3702 Methods of Applied Mathematics (S1) MATH3711 Complex Analysis (S2)	# STEM Year 3 Option Topics: STEM3001 Science Connect (S1 or S2) STEM3100 Research Project in Science (NS1 or NS2)

Please note:

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official [Course Rule](#).
- Topic information for all topics, including pre-requisites can be found on the [Topic Page](#)
- General enrolment assistance is available via [Ask Flinders](#)
- For specific course advice e-mail: courseadvice.SE@flinders.edu.au