

Bachelor of Science (Physics)

2024 Study Planner

Semester 1 Start:

First Level	Semester 1	MATH1121 Mathematics 1A	PHYS1101 Physics 1A	STEM1001 Nature of STEM	Major or Elective Topic (4.5/13.5 units)	
	Semester 2	MATH1122 Mathematics 1B	PHYS1102 Physics 1B	Major or Elective Topic (4.5/13.5 units)	Major or Elective Topic (4.5/13.5 units)	
Second Level	Semester 1	MATH2702 Linear Algebra and Differential Equations	MATH2711 Multivariable Calculus	PHYS2702 Classical Physics	Major or Elective Topic (4.5/9 units)	
	Semester 2	PHYS2001 Quantum and Nuclear Physics	PHYS2712 Thermodynamics and Energy Systems	STEM2005 Science Applied	Major or Elective Topic (4.5/9 units)	
Third Level	Semester 1	ENGR2861 Electromagnetics and Electromagnetic Waves	PHYS3001 Quantum and Statistical Physics	Major or Elective Topic (4.5/9 units)	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	PHYS3702 Solid State Physics and Optoelectronics	Major or Elective Topic (4.5/9 units)		

Semester 2 Start: (to complete in three years)

First Level	Semester 2	MATH1121 Mathematics 1A	Major or Elective Topic (4.5/13.5 units)	Major or Elective Topic (4.5/13.5 units)	Major or Elective Topic (4.5/13.5 units)	
	S	MATH1122 Mathematics 1B				
	Semester 1	PHYS1101 Physics 1A	STEM1001 Nature of STEM	MATH2702 Linear Algebra and Differential Equations	MATH2711 Multivariable Calculus	
Second Level	Semester 2	PHYS1102 Physics 1B	STEM2005 Science Applied	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	PHYS3702 Solid State Physics and Optoelectronics	Major or Elective Topic (4.5/9 units)	Major or Elective Topic (4.5/9 units)	
	Semester 1	PHYS3001 Quantum and Statistical Physics	Major or Elective Topic (4.5/9 units)	Major or Elective Topic (4.5/9 units)		

Key:

Core Topics	Compulsory topic
Major or Elective Topic	Major Topic: from the Nuclear Engineering Major (only available to Australian citizens) OR 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.
# 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