

Bachelor of Advanced Science (Physics) (Mathematics)

Useful study planning/enrolment resources:

- [Subject Search](#)
- [Academic Calendars](#)
- [Class Registration](#)
- [Enrolment Resources](#)

The information in the study planner is current at the time of creation may be subject to future change.

Attention International Student visa holders: To remain compliant with your enrolments requirements as a Student visa holder you are required to enrol in at least one On-Campus, Multi-Modal or WIL subject offering in each compulsory study period and you cannot enrol in more than one third (33%) of your total course load through online or distance learning. To complete your course within your CoE duration students must maintain sufficient subject enrolment.

The College of Science and Engineering will be offering some subjects in Block 3 and Block 4 (see the [Academic Calendar](#) for Block 3 and 4 dates). International students must maintain enrolment in subjects across the whole Trimester 2 period (May - August) and can do this by enrolling in a combination of Block 3 and Block 4 subjects, and/or Trimester 2 subjects and full-time enrolment load in an academic year.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2025	SC1101:03 Science Technology and Truth	CH1020:03 Preparatory Chemistry (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study)	SC1109:03 Modelling Natural Systems-Advanced <i>PREREQ: MA1000</i>
	MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or BR0202 or High School Senior Mathematics equivalent</i>	Physics Major PH1005:03 Newtonian Physics <i>PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008. Allow concurrent for MA1000 and MA1008</i>	Physics Major PH1007:03 Fundamental Physics <i>PREREQ: Maths B or equivalent or MA1020 or MA0020) and PH1005) or (Physics and Maths C)</i>
	Elective subject from List 1 (Breadth Subjects)		Mathematics Major MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011</i>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	<p>SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: SC1109 and MA1003 plus 6 credit points of other Level 1 subjects</i></p>	<p>Physics Major PH2019:03 Electromagnetism and Optics <i>PREREQ: (EG1012 or PH1005) and MA1003</i></p>	<p>Physics Major PH2002:03 Classical Mechanics and Quantum Physics <i>PREREQ: MA1003 and PH1005 and (PH1006 or PH1007 or (EG1012 and EG1011))</i></p>
	<p>Physics Major PH2048:03 Medicinal and Radiation Physics <i>PREREQ: MA1003 and PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i></p>	<p>Mathematics Major MA2211:03 Discrete Mathematics <i>PREREQ: MA1020 or Maths B or MA0020</i></p>	<p>Mathematics Major MA2210:03 Linear Algebra <i>PREREQ: MA1000</i></p>
	<p>Mathematics Major MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i></p>		<p>Elective from List 1 (Skill Subjects)</p>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	<p>Physics Major PH3021:03 Physics of the Earth, Solar System and Universe <i>PREREQ: PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i></p>	<p>Physics Major PH3002:03 Advanced Quantum Physics <i>PREREQ: MA2000 AND PH2002</i></p>	<p>SC3008:03 Professional Placement (TR1, TR2, TR3) <i>PREREQ: 12 credit points of second year subjects. Restricted to students with an approved placement</i></p> <p>OR</p> <p>SC3003:03 Science Research Internship (TR1, TR2, TR3) <i>PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC science level 2 subjects</i></p> <p><i>*Students must source a supervisor for their internship before enrolment</i></p>
	<p>Mathematics Major MA3211:03 Mathematical Modelling and Differential Equations <i>PREREQ: MA2000 and (MA2210 or MA2201)</i></p>	<p>Mathematics Major MA3212:03 Optimisation and Operations Research <i>PREREQ: MA2000</i></p>	<p>Physics Major PH3008:03 Statistical Mechanics and Transport <i>PREREQ: MA2000 and PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i></p>
	<p>Select 3 credit points of subjects from List 1 (Advanced Skills Subjects)</p>		<p>Mathematics Major MA3210:03 Probability and Stochastic Processes <i>PREREQ: MA2000</i></p>

COURSE HANDBOOK

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[Mathematics Major](#)

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