

## Pathway to major in Experimental & Theoretical Physics

Year 1 / Level I (not more than 30 units)				
S1	# <a href="#">PHYSICS 1100</a> Physics IA	# <a href="#">MATHS 1011</a> Mathematics IA	** ‡ <a href="#">Approved Level I Elective</a>	<a href="#">SCIENCE 1400</a> <i>Science or Fiction I</i>
S2	# <a href="#">PHYSICS 1200</a> Physics IB	# <a href="#">MATHS 1012</a> Mathematics IB	** <a href="#">Approved Level I Elective</a>	<a href="#">Approved Level I Elective</a>
Year 2 / Level II				
S1	<a href="#">PHYSICS 2510</a> Physics IIA	<a href="#">MATHS 2101</a> Multivariable & Complex Calculus II	<a href="#">MATHS 2102</a> Differential Equations II	<a href="#">Approved Level II Elective</a>
S2	† <a href="#">PHYSICS 2520</a> Physics IIB	<a href="#">PHYSICS 2534</a> Electromagnetism II	<a href="#">PHYSICS 2532</a> Classical Physics II	<a href="#">PHYSICS 2530</a> Astrophysics II
	*Global Experience: The Faculty of Sciences recommends students who want to undertake an exchange in an overseas university plan to go in Semester 2 of Level 2 and/or Semester 1 of Level 3.			
Year 3 / Level III (at least 24 units)				
S1	<a href="#">PHYSICS 3542</a> Physics III (6 units)		§ ‡ <a href="#">PHYSICS 3534</a> Computational Physics III or <a href="#">Approved Level III Elective</a>	§ <a href="#">PHYSICS 3532</a> Atmospheric & Astrophysics III or <a href="#">Approved Level III Elective</a>
	*Global Experience: The Faculty of Sciences recommends students who want to undertake an exchange in an overseas university plan to go in Semester 2 of Level 2 and/or Semester 1 of Level 3.			
S2	<a href="#">PHYSICS 3002</a> Experimental Physics III	<a href="#">PHYSICS 3544</a> Quantum Mechanics III	<a href="#">PHYSICS 3006</a> Advanced Dynamics and Relativity III	§† <a href="#">PHYSICS 3540</a> Optics and Photonics III or <a href="#">Approved Level III Elective</a>

ALL COURSES ARE WORTH 3 UNITS UNLESS OTHERWISE SPECIFIED

### Key

Core Course	Elective Course	Course for Major
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# Check [Course Planner](#) or with the Sciences Service Hub to ensure you meet the pre-requisites prior to enrolling into these courses.

\*\* Students who successfully complete CHEM 1101 Foundations of Chemistry IA and CHEM 1201 Foundations of Chemistry IB and who wish to continue their study of Chemistry at Level II will be required to undertake an additional course, CHEM 1312 Foundations of Chemistry IS during Summer School before commencing Level II Chemistry studies.

‡ COMP SCI 1012 or COMP SCI 1011 or COMP SCI 1102 is a pre-requisite for PHYSICS 3534 Computational Physics III

† PHYSICS 2520 is a pre-requisite for PHYSICS 3540 Optics & Photonics III.

§ You must present at least **one** of these courses in addition to PHYSICS 3002, 3006, 3542 and 3544 to complete the Major.

### Enrolment Advice – General

- It is your responsibility to ensure you are correctly enrolled. Enrolment into courses outside of the Study Plan and Enrolment Advice listed could affect your eligibility to graduate.
- A total of **72 units** are required to complete Bachelor of Science program.
- No more than 30 units of courses can be completed at Level I.
- At least 24 units of Science courses must be completed at Level III.
- A candidate may substitute an appropriate course chosen from Level II to fulfil the requirements of Level I, or from Level III to fulfil the requirements of Level I or II.
- There is a limitation on the amount of 'Non-Science' courses that can be presented. **Do not assume that because a course is offered through Sciences, that it automatically counts as 'Science'** (e.g. Animal Science courses). Please refer to your [Program Rules](#).
- No level III course may be used to meet the requirements of more than one major. (For example, if *Soil Ecology and Nutrient Cycling* is used to qualify for a *Soil Science* major, it cannot also be used to qualify for an *Ecology* Major).
- Please consult your [Program coordinator](#) or contact the Sciences Service Hub for advice.

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### Enrolment Advice – Courses

- Only ONE of BIOLOGY 1201 Biology I: Human Perspectives or BIOLOGY 1202 Biology I: Organisms may be presented towards the Bachelor of Science.
- The following courses cannot be presented towards the Bachelor of Science:
  - ANAT SC 1102 Human Biology IA
  - ANAT SC 1103 Human Biology IB
  - COMP SCI 1003 Internet Computing

### Complementary Majors

This is an extended major and it is normally not possible to fit in sufficient units at Level III to also qualify for a second major.

### Electives and Broadening

You may complete up to 9 units of 'non-science' elective courses at Level I and/or Level II. Of these courses a maximum of 6 units can be chosen at Level I. Please refer to your Program Rules for electives and all other requirements, including details on how to meet broadening experience <https://calendar.adelaide.edu.au/faculty/sciences>

For information about electives from other Faculties, course restrictions and pre-requisites, search the course planner: <https://access.adelaide.edu.au/courses/search.asp>

### Variations for students who commenced in or prior to 2012

- Level III: Must present PHYSICS 3002 Experimental Physics III and PHYSICS 3542 Physics III, and either PHYSICS 3006 Dynamics and Relativity III or PHYSICS 3544 Quantum Mechanics III, together with 6 units from PHYSICS 3532 Atmospheric & Astrophysics III, PHYSICS 3534 Computational Physics III, or PHYSICS 3540 Optics & Photonics III.

### Variations for students who commenced in or prior to 2017

- Level I core course SCIENCE 1100 Principles & Practice of Science I, has now been replaced by SCIENCE 1400 Science or Fiction I.

### Global Experience

The University of Adelaide is committed to offering its students the opportunity to study overseas through an International Experience. This experience is available in a wide range of degrees and can include student exchange (for either one or two full semesters), study tours, internships and placements. There are many exciting opportunities in Europe, Asia, the Americas, Africa, and Oceania ranging from a few weeks to a full academic year.

\* The Faculty of Sciences recommends students who want to undertake an exchange in an overseas university plan to go in Semester 2 of Level 2 and/or Semester 1 of Level 3. To find opportunities available in your study area click [Study Overseas](#).

### Further Information and Enrolment Advice

#### Sciences Service Hub

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