

## Pathway to major in Physics

| Year 1 / Level I                                                                                                                                                                              |                                                                                                                                                |                                                                                           |                                                                |                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S1                                                                                                                                                                                            | <a href="#">SCIENCE 1500</a> Introductory Data Science – Becoming Smart About Data                                                             | <a href="#">APP DATA 1010</a> Ethics and Data Management I                                | <a href="#">PHYSICS 1100</a> Physics IA                        | <sup>^</sup> <a href="#">MATHS 1011</a> Mathematics 1A                                                                                                                              |
| S2                                                                                                                                                                                            | <a href="#">STATS 1000</a> Statistical Practice I<br>OR<br><a href="#">STATS 1005</a> Statistical Analysis and Modelling I                     | <a href="#">Approved level I elective</a>                                                 | <a href="#">PHYSICS 1200</a> Physics IB                        | <a href="#">MATHS 1012</a> Mathematics IB                                                                                                                                           |
| Year 2 / Level II                                                                                                                                                                             |                                                                                                                                                |                                                                                           |                                                                |                                                                                                                                                                                     |
| S1                                                                                                                                                                                            | <a href="#">APP DATA 2010</a> Data Handling and Visualisation II                                                                               | <a href="#">PHYSICS 2510</a> Physics IIA                                                  | <a href="#">MATHS 2101</a> Multivariable & Complex Calculus II | <a href="#">MATHS 2102</a> Differential Equations                                                                                                                                   |
| S2                                                                                                                                                                                            | <a href="#">PHYSICS 2534</a> Electromagnetism II                                                                                               | <a href="#">PHYSICS 2520</a> Physics IIB                                                  | <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                                                                                                                                                                            |                                                                                                                                                |                                                                                           |                                                                |                                                                                                                                                                                     |
| S1                                                                                                                                                                                            | <sup>^</sup> <a href="#">APP DATA 3010</a> Advanced Data Analysis III OR<br><sup>^</sup> <a href="#">APP DATA 3015</a> Numerical Modelling III | <a href="#">PHYSICS 3542</a> Physics III                                                  |                                                                | <sup>#</sup> <a href="#">PHYSICS 3532</a> Atmospheric and Astrophysics III OR<br><a href="#">Approved Level III</a> elective OR<br><a href="#">SCIENCE 3700</a> Sciences Internship |
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| S2                                                                                                                                                                                            | <a href="#">APP DATA 3020</a> Capstone Project in Domain-Specific Decision Science III                                                         | <sup>^</sup> <a href="#">APP DATA 3035</a> Statistical Inference and Machine Learning III | <a href="#">PHYSICS 3002</a> Experimental Physics III          | <sup>#</sup> <a href="#">PHYSICS 3540</a> Optics and Photonics III OR<br><a href="#">Approved Level III</a> elective OR<br><a href="#">SCIENCE 3700</a> Sciences Internship         |

ALL COURSES ARE WORTH 3 UNITS UNLESS OTHERWISE SPECIFIED

### Key

|                    |                 |                  |
|--------------------|-----------------|------------------|
| <b>Core Course</b> | Elective Course | Course for Major |
|--------------------|-----------------|------------------|

\*\* 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.

# You must complete at least one of PHYSICS 3532 or PHYSICS 3540 in addition to <sup>^</sup> PHYSICS 3542 & PHYSICS 3002 to complete the major.

<sup>^</sup> This course is a compulsory elective that contributes towards the more quantitative stream

### Enrolment Advice

- 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 the Bachelor of Applied Data Analytics program.
- Please consult your [Program Coordinator](#) or contact the Sciences Service Hub for advice.

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### Electives and Broadening

You may complete up to 9 units of 'Non-Science' elective courses at Level I or Level II. Of these courses, a maximum of 6 units can be chosen at Level I from other Faculties of the University. Note that no courses at Level III can be chosen from other Faculties of the University

You must complete Elective courses to fulfil the requirements of your Program: Please refer to your Program Rules for electives and all other requirements <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>

### 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

Phone: +61 8 8313 5673

Email: [faculty.sciences@adelaide.edu.au](mailto:faculty.sciences@adelaide.edu.au)