

## Pathway to major in Chemistry

| Year 1 / Level I (not more than 30 units)   |  |  |  |   |
|---|--|--|--|---|
| S2  | # <a href="#">CHEM 1200</a> Chemistry IB <b>OR</b><br>#† <a href="#">CHEM 1201</a> Foundations of Chemistry IB   | <a href="#">Approved Level I Elective</a>  | <a href="#">Approved Level I Elective</a>                                      | <a href="#">Approved Level I Elective</a>   |
| S1  | # <a href="#">CHEM 1100</a> Chemistry IA <b>OR</b><br>#† <a href="#">CHEM 1101</a> Foundations of Chemistry IA   | ^ <a href="#">MATHS 1011</a> Mathematics IA<br>(only if intending to complete <a href="#">CHEM 3630</a> Physical Chemistry)<br>OR<br><a href="#">Approved Level I Elective</a> | <a href="#">Approved Level I Elective</a>                                      | <a href="#">SCIENCE 1300 Principles &amp; Practice of Research (Advanced) I</a>             |
| Year 2 / Level II   |  |  |  |   |
| S2  | ^ <a href="#">CHEM 2550</a> Physical & Inorganic Chemistry II  | <a href="#">CHEM 2540</a> Medicinal & Biological Chemistry II  | <a href="#">Approved Level I or Level II Elective</a>                          | <a href="#">SCIENCE 2300 Principles &amp; Practice of Research (Adv) II [or Semester 1]</a> |
| S1  | <a href="#">CHEM 2545</a> Organic Chemistry II   | * <a href="#">CHEM 2530</a> Environmental & Analytical Chemistry II  | <a href="#">Approved Level I or Level II Elective</a>                          | <a href="#">Approved Level II 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. |  |  |  |   |
| Year 3 / Level III (at least 24 units)  |  |  |  |   |
| S2  | ‡ Level III Chemistry Course<br>or <a href="#">Approved Level III Elective</a>   | ‡ Level III Chemistry Course<br>or <a href="#">Approved Level III Elective</a>   | ‡ Level III Chemistry Course<br>or <a href="#">Approved Level III Elective</a> | <a href="#">SCIENCE 3100 Principles &amp; Practice of Research (Adv) III</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. |  |  |  |   |
| S1  | At least 6 units from the following:<br><a href="#">CHEM 3610</a> Inorganic Chemistry III<br><a href="#">CHEM 3620</a> Organic Chemistry III<br>^ <a href="#">CHEM 3630</a> Physical Chemistry III | * ‡ <a href="#">CHEM 3600</a> Environmental and Analytical Chemistry III<br>Or <a href="#">Approved Level III Elective</a>   | <a href="#">Approved Level III Elective</a>                                    |   |
| Year 4/ Level IV (24 units)   |  |  |  |   |
| Courses to the value of 24 units, chosen from the <a href="#">Bachelor of Science (Honours)</a> . A Research Pathway or Professional Pathway must be chosen in a specialisation area.         |  |  |  |   |

ALL COURSES ARE WORTH 3 UNITS UNLESS OTHERWISE SPECIFIED

### Key

| Core Course | Elective Course | Course for Major |
|-------------|-----------------|------------------|
|-------------|-----------------|------------------|

# Check [Course Planner](#) or with the Sciences Service Hub to ensure you meet the pre-requisites or transition arrangements 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.

^ MATHS 1011 Mathematics I & CHEM 2550 Physical & Inorganic Chemistry II are listed as pre-requisite for CHEM 3630 Physical Chemistry III

\*CHEM 2530 Environmental & Analytical Chemistry II is listed as a pre-requisite for CHEM 3600 Environmental & Analytical Chemistry III

### 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 96 units are required to complete Bachelor of Science (Advanced) (Honours) Direct Entry 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.
- 24 units of courses at level IV must be completed which will include a Research or Professional pathway taken from a specialisation area in the Bachelor of Science (Honours).
- You 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](#).

## Pathway to major in Chemistry

‡ You must complete **courses to the value of at least 3 units** from these courses in addition to the 6 units chosen from CHEM 3610, CHEM 3620 or CHEM 3630 and SCIENCE 3100 Principles & Practice of Research (Adv) III to complete the Major:

- CHEM 3211 Synthesis of Materials III (3 units)
- CHEM 3212 Fundamentals of Materials III (3 units)
- CHEM 3213 Advanced Synthetic Methods III (3 units)
- CHEM 3214 Medicinal and Biological Chemistry III (3 units)
- CHEM 3600 Environmental & Analytical Chemistry III

### Complementary Majors

The following majors are often pursued by students as well as the above major, as a complementary field:

- Biochemistry
- Genetics
- Geology
- Geophysics
- Soil Science
- Microbiology & Immunology
- Physics

### 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:
  - COMP SCI 1003 Internet Computing

### 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>

- 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.

### 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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