

Pathway to major in Chemistry

Year 1 / Level I (not more than 30 units)				
S1	# CHEM 1100 Chemistry IA OR #† CHEM 1101 Foundations of Chemistry IA	^ MATHS 1011 Mathematics IA (required if intending to complete CHEM 3630 Physical Chemistry) OR Approved Level I Elective	Approved Level I Elective	SCIENCE 1300 Principles & Practice of Research (Advanced) I
S2	# CHEM 1200 Chemistry IB OR #† CHEM 1201 Foundations of Chemistry IB	Approved Level I Elective	Approved Level I Elective	Approved Level I Elective
Year 2 / Level II				
S1	CHEM 2545 Organic Chemistry II	* CHEM 2530 Environmental & Analytical Chemistry II	Approved Level I or Level II Elective	Approved Level II Elective
S2	^ CHEM 2550 Physical & Inorganic Chemistry II	CHEM 2540 Medicinal & Biological Chemistry II	Approved Level I or Level II Elective	SCIENCE 2300 Principles & Practice of Research (Adv) II [or Semester 1]
*Global Experience: We recommend 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	At least 6 units from the following: CHEM 3610 Inorganic Chemistry III CHEM 3620 Organic Chemistry III ^ CHEM 3630 Physical Chemistry III		Approved Level III Elective	Approved Level III Elective
*Global Experience: We recommend 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	‡ Level III Chemistry Course or Approved Level III Elective	Approved Level III Elective	Approved Level III Elective	SCIENCE 3100 Principles & Practice of Research (Adv) III

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 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.

^ Students wishing to complete CHEM 3630 Physical Chemistry III must complete MATHS 1011 Maths IA and CHEM 2550 Physical & Inorganic Chemistry II.

* Students wishing to complete CHEM 3600 Environmental and Analytical Chemistry III must have completed CHEM 2530 Environmental & Analytical Chemistry II.

Enrolment Advice – General

- A total of 72 units are required to complete Bachelor of Science (Advanced) 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.
- 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](#).
- 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.
- Under the University's [Student Charter](#), it is the student's responsibility to enrol correctly in accordance with the University's program requirements, course prerequisites and University procedures, and ensure that your enrolment will enable you to graduate in your chosen program. If this study plan is unclear or contains an error, it is recommended you seek confirmation and advice from the Sciences Service Hub at the earliest opportunity.

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Complementary Majors

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

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

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>

‡ To complete the major you must complete **at least 3 units** from these courses in addition to the 6 units chosen from CHEM 3610, CHEM 3620 or CHEM 3630 plus SCIENCE 3100:

- 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 and Analytical Chemistry III (3 units) **[Semester 1]**

Enrolment Errors

Please [submit the relevant form](#) to request a unit-overload waiver, prerequisite waiver, timetable clash resolution or a course/class full request.

Variations for students who commenced in or prior to 2014

- Level III: CHEM 3530 Environmental and Analytical Chemistry III, and CHEM 3540 Research Methods in Chemistry III, are courses permitted to be counted towards the major. These courses are incompatible with CHEM 3560 Molecular Structure Determination III.

Variations for students who commenced in or prior to 2019

- CHEM 2510 Chemistry IIA and CHEM 2520 Chemistry IIB were replaced by CHEM 2545 Organic Chemistry II and CHEM 2550 Physical & Inorganic Chemistry II in 2020

Variations for students who commenced in or prior to 2020

- The choice of at least 6 units from CHEM 3610, CHEM 3620 and CHEM 3630 replaced the 6 unit course CHEM 3111 Chemistry III

Global Experience

* We recommend 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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