

## Pathway to major in Soil Science

Year 1 / Level I (not more than 30 units)				
S1	† <a href="#">GEOLOGY 1103</a> Building a Habitable Planet	‡~ <a href="#">BIOLOGY 1101</a> Biology I: Molecules, Genes & Cells	Ω <a href="#">CHEM 1100</a> Chemistry IA or ** Ω <a href="#">CHEM 1101</a> Foundations of Chemistry IA	<a href="#">SCIENCE 1300 Principles &amp; Practice of Research (Advanced) I</a>
S2	† <a href="#">GEOLOGY 1100</a> Planet Earth	‡~ <a href="#">BIOLOGY 1202</a> Biology I: Organisms	Ω <a href="#">CHEM 1200</a> Chemistry IB or ** Ω <a href="#">CHEM 1201</a> Foundations of Chemistry IB	<a href="#">Approved Level I Elective</a>
Year 2 / Level II				
S1	<a href="#">SOIL&amp;WAT 2500/2500WT</a> Soil and Water Resources II	‡ <a href="#">PLANT SC 2510WT</a> Foundations in Plant Science II	<a href="#">GEOLOGY 2500</a> Sedimentary Geology II or <a href="#">Approved Level II Elective</a>	<a href="#">Approved Level II Elective</a>
S2	<a href="#">Approved Level II Elective</a>	<a href="#">Approved Level II Elective</a>	<a href="#">Approved Level II Elective</a>	<a href="#">SCIENCE 2300 Principles &amp; Practice of Research (Adv) II [or Semester 1]</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)				
S1	<a href="#">SOIL&amp;WAT 3017WT</a> Soil & Water: Management & Conservation III	<a href="#">SOIL&amp;WAT 3016WT</a> Soil Ecology & Nutrient Cycling III	<a href="#">Approved Level III Elective</a>	§Ω <a href="#">SOIL&amp;WAT 3004WT</a> Environmental Toxicology & Remediation [Winter School] 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="#">GEOLOGY 3505</a> Earth Systems History III or <a href="#">Approved Level III Elective</a>	§ ‡ <a href="#">PLANT SC 3505WT</a> Soil and Plant Nutrition III or <a href="#">Approved Level III Elective</a>	<a href="#">Approved Level III Elective</a>	<a href="#">SCIENCE 3100 Principles &amp; Practice of Research (Adv) III</a>

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 prior to enrolling into 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 who were unsuccessful in completing BIOLOGY 1101 Biology I: Molecules, Genes & Cells or BIOLOGY 1401 Concepts in Biology have the opportunity to undertake BIOLOGY 1001 Fundamentals of Biology in Term 4 and Summer School before commencing Level II courses

§ You must complete **at least one** of these courses in addition to SOIL&WAT 3017WT, SOIL&WAT 3016WT & SCIENCE 3100 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 (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.
- 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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† GEOLOGY 2500 Sedimentary Geology II, is listed as a pre-requisite for GEOLOGY 3505 Earth System History II. GEOLOGY 2500 Sedimentary Geology II has assumed knowledge of GEOLOGY 1100 Planet Earth or GEOLOGY 1103 Building a Habitable Planet.

‡ PLANT SC 2510WT Foundations in Plant Science, is listed as assumed knowledge for PLANT SC 3505WT Soil and Plant Nutrition III. PLANT SC 2510WT Foundations in Plant Science II requires BIOLOGY 1101 Biology I: Molecules, Genes and Cells or BIOLOGY 1202 Biology I: Organisms as a prerequisite.

Ω SOIL & WATER 3004WT Environmental Toxicology & Remediation has the prerequisite of CHEM 1100 Chemistry 1A or CHEM 1101 Foundations of Chemistry 1A and CHEM 1200 Chemistry 1B or CHEM 1201 Foundations of Chemistry 1B.

### Complementary Majors

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

- Chemistry
- Evolutionary Biology
- Ecology
- Geology
- Geophysics

### 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

### 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 2013

- Level III: GEOLOGY 3504 Basins, Sediments and Regolith III, has been replaced by GEOLOGY 3505 Earth Systems History III.
- Level I core course SCIENCE 1100 Principles & Practice of Science and SCIENCE 1200 Principles & Practice (Advanced) 1, has now been replaced by SCIENCE 1300 Principles & Practice of Research (Advanced) I.

### Variations for students who commenced in or prior to 2011

- Level III: GEOLOGY 3014 Environmental Geoscience Applications III and PLANT SC 3004WT Mineral Nutrition of Plants III, have been replaced in the major by GEOLOGY 3505 Earth Systems History III and PLANT SC 3505WT Soil and Plant Nutrition III.

### 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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