

Bachelor of Teaching (Secondary)/Bachelor of Science

Study Plan 2021 commencement

If you did not commence your degree in 2021, please refer to the plan for the year in which you started.

PROGRAM STRUCTURE

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| UNITS AND LEVELS | <p>You must complete a total of 96 units of courses, with:</p> <ul style="list-style-type: none"> at least 12 units and <i>no more than</i> 24 units of Level 1 courses at least 72 units at Levels 2, 3 and 4 |
| SCIENCE MAJOR 1 (Teaching area 1) | <p>You must complete the requirements for a major teaching area in one of the following disciplines: Biology, Chemistry, Earth and Environmental Science or Physics. Courses for each major are listed on page 2. These courses are a guide only. Contact the Faculty of the Sciences for specific advice.</p> |
| SCIENCE MAJOR 2 (Teaching area 2) | <p>You must complete the requirements for a second, different major teaching area in one of the following disciplines: Biology, Chemistry, Digital Technologies, Earth and Environmental Science, Mathematics, Physics or Psychology. Courses for each major are listed on page 2, except Psychology which can be viewed on our website at https://arts.adelaide.edu.au/study-with-us/student-support/enrolment-help/study-plans. These courses are a guide only. Contact the Faculty of the Sciences for specific advice.</p> |
| SCIENCE ELECTIVE | <p>You can complete up to 12 units of Science electives. A full list of available courses can be found at https://calendar.adelaide.edu.au/faculty/arts. These courses are a guide only. Contact the Faculty of the Sciences for specific advice.</p> |
| EDUCATION | <p>You must complete 42 units of Teaching Core courses, including:</p> <ul style="list-style-type: none"> 18 units of Education Courses at level 1, 2 and 3 (6 units at each level) 24 units of Education Courses at level 4, including 12 units of Curriculum & Methodology courses. <p>Prior to commencing 4th year you must:</p> <ul style="list-style-type: none"> successfully complete both the literacy and numeracy components of the LANTITE; complete the requirements for the Bachelor of Science program. <p>Both Part A and the matching Part B of the same Curriculum & Methodology course must be completed from your chosen two teaching subject areas – refer to list on Faculty website.</p> |

PLEASE NOTE

- All Teaching Curriculum & Methodology course lists can be found on the Faculty of Arts website.
- A course is usually worth 3 units, with some worth 6, 9 or 12. Information about all courses can be found in Course Planner.
- Some courses have restrictions and/or prerequisites (i.e. other courses you must complete first) - check Course Planner to make sure you meet these, if applicable.
- If you think you might like to go on exchange, plan early in your degree so you don't miss out.

LINKS AND FURTHER INFORMATION

- [Course Planner](#) Information about any University course, including semester/term availability, class times, unit value, restrictions and prerequisites.
- [University Calendar](#) All academic program rules – this is the definitive set of rules for your program.
- [Study Overseas](#) A Study Overseas experience may be included in your program.
- Contact the Faculty of Arts:** arts@adelaide.edu.au • +61 8 8313 5245 • www.arts.adelaide.edu.au
- Contact the Faculty of Sciences:** faculty_sciences@adelaide.edu.au • +61 8 8313 5673 • www.sciences.adelaide.edu.au

STUDENT CHARTER

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, please seek advice from the Faculty of Arts at the earliest opportunity.

SCIENCE MAJOR COURSES

Biology

Level 1

- BIOLOGY 1201 Biology I: Human Perspectives

AND courses to the value of 3 units from the following:

- BIOLOGY 1101 Biology I: Molecules, Genes and Cells
- BIOLOGY 1401 Concepts in Biology

* 6 units of Level I Chemistry must be taken as Science electives to continue with Level 2 Biochem. Contact Faculty of Sciences for advice.

Level 2*

All the following courses must be completed:

- BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology
- BIOCHEM 2501 Biochemistry II: Metabolism

AND courses to the value of 3 units from the following:

- ENV BIOL 2501 Evolutionary Biology II
- ENV BIOL 2502 Ecology II

Level 3

- BIOCHEM 3000 Molecular and Structural Biology III (6 units)

OR courses to the value of 3 units from the following:

- ENV BIOL 3004 Freshwater Ecology III
- ENV BIOL 3121 Concepts in Ecology III

PLUS courses to the value of 3 units from the following:

- ENV BIOL 3010 Marine Ecology III
- ENV BIOL 3560 Evolution of Australian Biota III
- ENV BIOL 3580 Conservation Biology III
- ENV BIOL 3590 Evolutionary Biology III

Chemistry

Level 1

Courses to the value of at least 6 units from the following:

- CHEM 1100 Chemistry IA
- CHEM 1200 Chemistry IB

OR (all 3 courses below)

- CHEM 1200 Chemistry IB
- CHEM 1201 Foundations of Chemistry IB
- CHEM 1312 Foundations of Chemistry IS

Level 2

All the following courses must be completed:

- CHEM 2545 Organic Chemistry II
- CHEM 2550 Physical and Inorganic Chemistry II

Level 3

Courses to the value of 3 units from the following:

- CHEM 3610 Inorganic Chemistry III
- CHEM 3620 Organic Chemistry III
- CHEM 3630 Physical Chemistry III

Courses to the value of 6 units from the following:

- CHEM 3600 Environmental & Analytical Chemistry III
- CHEM 3610 Inorganic Chemistry III
- CHEM 3620 Organic Chemistry III
- CHEM 3630 Physical Chemistry III
- CHEM 3211 Synthesis of Materials III
- CHEM 3212 Fundamentals of Materials III
- CHEM 3213 Advanced Synthetic Methods III
- CHEM 3214 Medicinal and Biological Chemistry III

Earth and Environmental Science

Level 1

All the following courses must be completed:

- GEOLOGY 1100 Planet Earth
- GEOLOGY 1103 Building a Habitable Planet

Level 2

All the following courses must be completed:

- GEOLOGY 2500 Sedimentary Geology II
- GEOLOGY 2502 Igneous and Metamorphic Geology II

Level 3

All the following courses must be completed:

- GEOLOGY 3502 Mineral and Energy Resources III
- GEOLOGY 3505 Earth Systems History III
- PALAEO 3005 Geochronology, Fossils and Palaeoenvironments III

Physics (Please discuss major combinations with Faculty of Sciences)

Level 1

All the following courses must be completed:

- PHYSICS 1100 Physics IA*
- PHYSICS 1200 Physics IB**

*Co-requisite MATHS 1011; **Co-requisite MATHS 1012

Level 2

All the following courses must be completed:

- PHYSICS 2510 Physics IIA^
- PHYSICS 2534 Electromagnetism II

^Co-requisite: MATHS 2101 & MATHS 2102

Level 3

All the following courses must be completed:

- PHYSICS 3542 Physics III (6 units)
- PHYSICS 3002 Experimental Physics III

Digital Technologies

Level 1

All the following courses must be completed:

- COMP SCI 1101 Introduction to Programming
- COMP SCI 1102 Object Oriented Programming

Level 2

All the following courses must be completed:

- COMP SCI 2000 Computer Systems
- COMP SCI 2103 Algorithm Design & Data Structures
- COMP SCI 2201 Algorithm & Data Structure Analysis

Level 3

- COMP SCI 3006 Software Engineering & Project

AND courses to the value of 3 units from the following:

- COMP SCI 3001 Computer Networks & Applications
- COMP SCI 3004 Operating Systems
- COMP SCI 3005 Computer Architecture
- COMP SCI 3007 Artificial Intelligence
- COMP SCI 3306 Mining Big Data

Mathematics

Level 1

All the following courses must be completed*:

- MATHS 1011 Mathematics IA
- MATHS 1012 Mathematics IB

*If you have not completed SACE Stage 2 Specialist Maths, seek advice

Level 2

All the following courses must be completed:

- MATHS 2101 Multivariable & Complex Calculus II
- MATHS 2102 Differential Equations II

AND Courses to the value of 3 units from the following:

- MATHS 2100 Real Analysis II
- MATHS 2104 Numerical Methods II

Level 3

Courses to the value of 3 units from the following:

- APP MTH 3002 Fluid Mechanics III
- APP MTH 3021 Modelling with Ordinary Differential Equations III
- PURE MTH 3019 Complex Analysis III
- PURE MTH 3002 Topology and Analysis III
- PURE MTH 3007 Groups and Rings III

AND courses to the value of 3 units from the following:

- APP MTH 3022 Optimal Functions and Nanomechanics III
- APP MTH 3023 Partial Differential Equations and Waves III
- PURE MTH 3009 Integration and Analysis III
- PURE MTH 3023 Fields and Modules III
- PURE MTH 3024 Finite Geometry II

- This study plan functions as both a list of *courses you must complete* and as a record of *what you have completed*.
- Courses are not necessarily listed in a specific order – check Course Planner for availability in each semester/term.
- If you did not commence your degree in 2021, please refer to the plan for the year in which you started.
- **PLEASE NOTE:** The table below is a GUIDE ONLY and will change depending on which Science Teaching Areas you choose.

Student ID & Name:

| Course | Level | Units | Status |
|---|-------|-------|--------|
| Year 1 | | | |
| Sci TA 1 Level 1 course | 1 | 3 | |
| Sci TA 1 Level 1 course | 1 | 3 | |
| Sci TA 2 Level 1 course | 1 | 3 | |
| Sci TA 2 Level 1 course | 1 | 3 | |
| Science Level 1 course | 1 | 3 | |
| Science Level 1 course | 1 | 3 | |
| Educ EDUC 1001 Schools and Society | 1 | 3 | |
| Educ EDUC 1100 Introduction to Teaching and Learning (Including a 10-day placement) | 1 | 3 | |
| Year 2 | | | |
| Sci TA 1 Level 2 course | 2 | 3 | |
| Sci TA 1 Level 2 course | 2 | 3 | |
| Sci TA 2 Level 2 course | 2 | 3 | |
| Sci TA 2 Level 2 course | 2 | 3 | |
| Science Level 2 course | 2 | 3 | |
| Science Level 2 course | 2 | 3 | |
| Educ EDUC 2001 Issues in Contemporary Education | 2 | 3 | |
| Educ EDUC 2002 Research as Teaching Practice (Including a 10-day placement) | 2 | 3 | |
| Year 3 | | | |
| Sci TA 1 Level 3 course | 3 | 3 | |
| Sci TA 1 Level 3 course | 3 | 3 | |
| Sci TA 1 Level 3 course | 3 | 3 | |
| Sci TA 2 Level 3 course | 3 | 3 | |
| Sci TA 2 Level 3 course | 3 | 3 | |
| Sci TA 2 Level 3 course | 3 | 3 | |
| Educ EDUC 3006 Secondary Years Pedagogy (Including a 10-day placement) | 3 | 3 | |
| Educ EDUC 3003 Teaching the Diverse Classroom | 3 | 3 | |
| Year 4 | | | |
| Educ Teaching Area 1 Curriculum and Methodology A | 3 | 3 | |
| Educ Teaching Area 2 Curriculum and Methodology A | 3 | 3 | |
| Educ Teaching Area 1 Curriculum and Methodology B | 3 | 3 | |
| Educ Teaching Area 2 Curriculum and Methodology B | 3 | 3 | |
| Educ EDUC 4213 Education Research Skills | 3 | 3 | |
| Educ EDUC 4215 Secondary Years Professional Experience A | 3 | 3 | |
| Educ EDUC 4207 Professional Preparation (UG) (intensive week 1) | 3 | 3 | |
| Educ EDUC 4216 Secondary Years Professional Experience B | 3 | 3 | |

EN = Enrolled, CM = Complete

Major: If applicable

Minor: If applicable

Prepared by:

Date:

Notes: