

Program Code

BTSBS

Program Minimum Units

96

Standard Duration

4 Years

Program Faculty

Faculty of Arts

AQF Level

07

Academic Year

2022

These Program Rules should be read in conjunction with the University's policies (<http://www.adelaide.edu.au/policies>).

Overview

The Bachelor of Teaching (Secondary) with Bachelor of Science double degree prepares students for teaching in secondary schools. It is designed for students who are beginning tertiary study. The primary focus in the first three years of the double degree is on completing two teaching areas for teaching up to Year 12 level.

Students are required to have completed the requirements of the discipline degree to be eligible to enrol into the fourth year of the program.

The Bachelor of Teaching (Secondary) with Bachelor of Science is an AQF Level 7 qualification with a standard full-time duration of 4 years.

The program is offered as a double degree only and students are required to complete both awards at the same time.

Conditions**Condition of Admission**

Criminal History Clearance: Students must be able to demonstrate a successful National Criminal History Record Check (NCHRC) as it is required by teacher employment authorities in Australia and South Australia. A Working With Children Check (WWCC) is required prior to undertaking any professional experience/practicum placements which involves contact with minors (under 18 years of age). These placements are compulsory. International students will be required to obtain a certificate from their home country

Condition of Enrolment

Interruption of program: Students must apply for permission from the Program Coordinator before taking a Leave of Absence. Any extension of the leave without approval will result in the loss of place in the program but an application may be made to be re-admitted to the program subject to the admission procedures in place at the time.

Condition of Continuing Enrolment

LANTITE: progression into the fourth year of the program is subject to the successful completion of both the literacy and numeracy components of the Literacy and Numeracy Test for Initial Teacher Education (LANTITE).

Academic Program Rules for Bachelor of Teaching (Secondary) with Bachelor of Science (BTeach(Sec) BSc)

There shall be a Bachelor of Teaching (Secondary) with Bachelor of Science (BTeach(Sec) BSc).

Qualification Requirements

Academic Program

To qualify for the degree of Bachelor of Teaching (Secondary) with Bachelor of Science, the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 96 units, comprising:

1. Core courses to the value of 36 units from the Bachelor of Teaching (Secondary).
2. Courses to the value of 6 units from the Bachelor of Teaching Curriculum and Pedagogy courses.
3. Courses to the value of 54 units from the Bachelor of Science including:
 - Level I courses to the value of 18 units
 - Level II courses to the value of 18 units
 - Level III courses to the value of 18 units

Science Elective courses up to the value of 12 units.

Two Major Teaching Areas (with at least one from Group 1) from the following:

Major Teaching Area (Group 1):

- Biology
- Chemistry
- Earth and Environmental Science
- Physics

Major Teaching Area (Group 2):

- Digital Technologies
- Mathematics
- Psychology

** Defined by Australian Institute for Teaching and School Leadership (AITSL), a **major teaching area** is the equivalent of a total of three-quarters of a year's full time study which equates to a minimum of 18 units. No more than 6 units at Level I and at least 6 units at Level III can be counted. Teaching areas in the Bachelor of Teaching (Middle) with Bachelor of Science is 21 units each.*

Bachelor of Teaching (Secondary) Core Courses

To satisfy the requirements for Bachelor of Teaching (Secondary) Core Courses students must complete courses to the value of 36 units.

Level I

All of the following courses must be completed:

EDUC 1001 [Schools and Society](#) (3 units)

EDUC 1100 [Introduction to Teaching and Learning](#) (3 units)

Level II

All of the following courses must be completed:

EDUC 2001 [Issues in Contemporary Education](#) (3 units)

EDUC 2002 [Research as Teaching Practice](#) (3 units)

Level III

All of the following courses must be completed:

EDUC 3003 [Teaching the Diverse Classroom](#) (3 units)

EDUC 3006 [Secondary Years Pedagogy](#) (3 units)

Level IV - Professional Experience

All of the following courses must be completed:

EDUC 4090 [Prof Experience B & Assess for Graduate Teaching](#) (6 units)

EDUC 4213 [Education Research Skills](#) (3 units)

EDUC 4215 [Secondary Years Professional Experience A](#) (3 units)

EDUC 4217 [Curriculum, Assessment & Policy](#) (3 units)

EDUC 4218 [Foundations of Education](#) (3 units)

Bachelor of Science Major Teaching Areas

To satisfy the requirements for Bachelor of Science Major Teaching Areas students must complete courses to the value of 42 units.

Two Major Teaching Areas (with at least one from Group 1) from the following:

Major Teaching Area Group 1:

- Biology
- Chemistry
- Earth and Environmental Science
- Physics

Major Teaching Area Group 2:

- Digital Technologies
- Mathematics
- Psychology

Major Teaching Area 1 - Biology

All of the following courses must be completed:

Level I

BIOLOGY 1201 [Biology I: Human Perspectives](#) (3 units)

and

Courses to the value of 3 units from the following:

BIOLOGY 1101 [Biology I: Molecules, Genes and Cells](#) (3 units)

BIOLOGY 1401 Concepts in Biology (3 units)

and

All of the following courses must be completed:

CHEM 1100 [Chemistry IA](#) (3 units)

CHEM 1200 [Chemistry IB](#) (3 units)

or

All of the following courses must be completed:

CHEM 1101 [Foundations of Chemistry IA](#) (3 units)

CHEM 1201 [Foundations of Chemistry IB](#) (3 units)

All of the following courses must be completed:

Level II

*Please note Level II Biochemistry require Level I Chemistry as prerequisites: CHEM 1100 Chemistry IA & CHEM 1200 Chemistry IB **or** CHEM 1101 Foundations of Chemistry IA & CHEM 1201 Foundations of Chemistry IA

BIOCHEM 2500 [Biochemistry II: Molecular and Cell Biology](#) (3 units)

BIOCHEM 2501 [Biochemistry II: Metabolism](#) (3 units)

and

Courses to the value of 3 units from the following:

ENV BIOL 2501 [Evolutionary Biology II](#) (3 units)

ENV BIOL 2502 [Ecology II](#) (3 units)

and

Courses to the value of 6 units from the following:

Level III

BIOCHEM 3000 [Molecular and Structural Biology III](#) (6 units)

ENV BIOL 3004 [Freshwater Ecology III](#) (3 units)

ENV BIOL 3010 [Marine Ecology III](#) (3 units)

ENV BIOL 3121 [Concepts in Ecology III](#) (3 units)

ENV BIOL 3560 [Evolution of Australian Biota III](#) (3 units)

ENV BIOL 3580 [Conservation Biology III](#) (3 units)

ENV BIOL 3590 [Evolutionary Biology III](#) (3 units)

Major Teaching Area 1 - Chemistry

Courses to the value of 6 units from the following:

Level I

CHEM 1100 [Chemistry IA](#) (3 units)

CHEM 1200 [Chemistry IB](#) (3 units)

or

Courses to the value of 6 units from the following:

CHEM 1101 [Foundations of Chemistry IA](#) (3 units)

CHEM 1201 [Foundations of Chemistry IB](#) (3 units)

CHEM 1312 [Foundations of Chemistry IS](#) (3 units)

and

All of the following courses must be completed:

Level II

CHEM 2545 [Organic Chemistry II](#) (3 units)

CHEM 2550 [Physical and Inorganic Chemistry II](#) (3 units)

and

Courses to the value of 3 units from the following:

Level III

CHEM 3610 [Inorganic Chemistry III](#) (3 units)

CHEM 3620 [Organic Chemistry III](#) (3 units)

CHEM 3630 [Physical Chemistry III](#) (3 units)

and

Courses to the value of 6 units from the following:

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)

CHEM 3610 [Inorganic Chemistry III](#) (3 units)

CHEM 3620 [Organic Chemistry III](#) (3 units)

CHEM 3630 [Physical Chemistry III](#) (3 units)

Major Teaching Area 1 - Earth and Environmental Science

All of the following courses must be completed:

Level I

GEOLOGY 1100 [Planet Earth](#) (3 units)

GEOLOGY 1103 [Building a Habitable Planet](#) (3 units)

and

All of the following courses must be completed:

Level II

GEOLOGY 2500 [Sedimentary Geology II](#) (3 units)

GEOLOGY 2502 [Igneous and Metamorphic Geology II](#) (3 units)

and

All of the following courses must be completed:

Level III

GEOLOGY 3505 [Earth Systems History III](#) (3 units)

GEOLOGY 3525 [Mineral Resources III](#) (3 units)

PALAEO 3005 [Geochronology, Fossils and Palaeoenvironments III](#) (3 units)

Major Teaching Area 1 - Physics

All of the following courses must be completed:

Level I

Please note Physics requires Level I Maths co-requisites: MATHS 1011 Mathematics IA and MATHS 1012 Mathematics IB.

PHYSICS 1100 [Physics IA](#) (3 units)

PHYSICS 1200 [Physics IB](#) (3 units)

and

All of the following courses must be completed:

MATHS 1011 [Mathematics IA](#) (3 units)

MATHS 1012 [Mathematics IB](#) (3 units)

and

All of the following courses must be completed:

Level II

Please note Level 2 Physics requires Level II Maths as co-requisites: MATHS 2101 Multivariable & Complex Calculus II & MATHS 2102 Differential Equations II

PHYSICS 2510 [Physics IIA](#) (3 units)

PHYSICS 2534 [Electromagnetism II](#) (3 units)

and

All of the following courses must be completed:

MATHS 2101 [Multivariable & Complex Calculus II](#) (3 units)

MATHS 2102 [Differential Equations II](#) (3 units)

and

All of the following courses must be completed:

Level III

PHYSICS 3002 [Experimental Physics III](#) (3 units)

PHYSICS 3542 [Physics III](#) (6 units)

Major Teaching Area 2 - Mathematics

All of the following courses must be completed:

Level I

MATHS 1011 [Mathematics IA](#) (3 units)

MATHS 1012 [Mathematics IB](#) (3 units)

and

All of the following courses must be completed:

Level II

MATHS 2101 [Multivariable & Complex Calculus II](#) (3 units)

MATHS 2102 [Differential Equations II](#) (3 units)

and

Courses to the value of 3 units from the following:

MATHS 2100 [Real Analysis II](#) (3 units)

MATHS 2104 [Numerical Methods II](#) (3 units)

and

Courses to the value of 6 units from the following:

Level III

APP MTH 3002 [Fluid Mechanics III](#) (3 units)

APP MTH 3021 [Modelling with Ordinary Differential Equations III](#) (3 units)

APP MTH 3023 [Partial Differential Equations and Waves III](#) (3 units)

MATHS 3021 [Capstone Project in Mathematical Sciences III](#) (3 units)

PURE MTH 3002 [Topology and Analysis III](#) (3 units)

PURE MTH 3007 [Groups and Rings III](#) (3 units)

PURE MTH 3009 [Integration and Analysis III](#) (3 units)

PURE MTH 3019 [Complex Analysis III](#) (3 units)
PURE MTH 3023 [Fields and Modules III](#) (3 units)

Major Teaching Area 2 - Digital Technologies

All of the following courses must be completed:

Level I

COMP SCI 1102 [Object Oriented Programming](#) (3 units)
ENG 1002 [Programming \(Matlab and C\)](#) (3 units)

All of the following courses must be completed:

Level II

COMP SCI 2000 [Computer Systems](#) (3 units)
COMP SCI 2103 [Algorithm Design & Data Structures](#) (3 units)
COMP SCI 2201 [Algorithm & Data Structure Analysis](#) (3 units)

and

All of the following courses must be completed:

Level III

COMP SCI 3006 [Software Engineering & Project](#) (3 units)

and

Courses to the value of 3 units from the following:

COMP SCI 3001 [Computer Networks & Applications](#) (3 units)
COMP SCI 3004 [Operating Systems](#) (3 units)
COMP SCI 3005 [Computer Architecture](#) (3 units)
COMP SCI 3007 [Artificial Intelligence](#) (3 units)
COMP SCI 3306 [Mining Big Data](#) (3 units)

Major Teaching Area 2 - Psychology

All of the following courses must be completed:

Level I

PSYCHOL 1000 [Psychology IA](#) (3 units)
PSYCHOL 1001 [Psychology IB](#) (3 units)
PSYCHOL 1004 [Research Methods in Psychology](#) (3 units)

and

All of the following courses must be completed:

Level II

PSYCHOL 2004 [Doing Research in Psychology](#) (3 units)
PSYCHOL 2007 [Psychology in Society](#) (3 units)

and

Courses to the value of 6 units from the following:

Level III

PSYCHOL 3021 [Health & Lifespan Development Psychology](#) (3 units)
PSYCHOL 3022 [Individual Differences, Personality & Assessment](#) (3 units)
PSYCHOL 3023 [Perception & Cognition](#) (3 units)

PSYCHOL 3026 [Learning and Behaviour](#) (3 units)

Bachelor of Teaching Core Course (Curriculum and Pedagogy) Science

To satisfy the requirements for Bachelor of Teaching Core Course (Curriculum and Pedagogy) Science students must complete courses to the value of 6 units.

Courses to the value of up to 6 units may be taken from the following:

- EDUC 4106 [Biology Curriculum & Pedagogy \(UG\)](#) (3 units)
- EDUC 4108 [Chemistry Curriculum & Pedagogy \(UG\)](#) (3 units)
- EDUC 4111 [Digital Technologies Curriculum & Pedagogy \(UG\)](#) (3 units)
- EDUC 4112 [Earth & Environmental Science Curr & Ped \(UG\)](#) (3 units)
- EDUC 4126 [Mathematics Curriculum and Pedagogy \(UG\)](#) (3 units)
- EDUC 4130 [Physics Curriculum & Pedagogy \(UG\)](#) (3 units)
- EDUC 4131 [Psychology Curriculum & Pedagogy \(UG\)](#) (3 units)
- EDUC 4132 [Science Curriculum and Pedagogy \(UG\)](#) (3 units)
- EDUC 4133 [Scientific Studies/STEM Curriculum & Pedagogy \(UG\)](#) (3 units)

Bachelor of Science Elective courses

To satisfy the requirements for Bachelor of Science Elective courses students must complete courses to the value of 12 units.

Level I

- BIOLOGY 1101 [Biology I: Molecules, Genes and Cells](#) (3 units)
- BIOLOGY 1201 [Biology I: Human Perspectives](#) (3 units)
- BIOLOGY 1401 Concepts in Biology (3 units)
- CHEM 1100 [Chemistry IA](#) (3 units)
- CHEM 1200 [Chemistry IB](#) (3 units)
- CHEM 1310 [Chemistry IA\(S\)](#) (3 units)
- CHEM 1311 [Chemistry IB\(S\)](#) (3 units)
- CHEM 1101 [Foundations of Chemistry IA](#) (3 units)
- CHEM 1201 [Foundations of Chemistry IB](#) (3 units)
- CHEM 1312 [Foundations of Chemistry IS](#) (3 units)
- COMP SCI 1015 [Introduction to Applied Programming](#) (3 units)
- COMP SCI 1102 [Object Oriented Programming](#) (3 units)
- ENG 1002 [Programming \(Matlab and C\)](#) (3 units)
- ENG 1003 [Programming \(Matlab and Excel\)](#) (3 units)
- GEOLOGY 1100 [Planet Earth](#) (3 units)
- GEOLOGY 1103 [Building a Habitable Planet](#) (3 units)
- MATHS 1011 [Mathematics IA](#) (3 units)
- MATHS 1012 [Mathematics IB](#) (3 units)
- PHYSICS 1008 [Physical Aspects of Nature I](#) (3 units)
- PHYSICS 1100 [Physics IA](#) (3 units)
- PHYSICS 1101 [Physics for the Life and Earth Sciences IA](#) (3 units)
- PHYSICS 1200 [Physics IB](#) (3 units)
- PHYSICS 1201 [Physics for the Life and Earth Sciences IB](#) (3 units)
- PSYCHOL 1000 [Psychology IA](#) (3 units)
- PSYCHOL 1001 [Psychology IB](#) (3 units)
- PSYCHOL 1004 [Research Methods in Psychology](#) (3 units)

Level II

- BIOCHEM 2500 [Biochemistry II: Molecular and Cell Biology](#) (3 units)
- BIOCHEM 2501 [Biochemistry II: Metabolism](#) (3 units)
- CHEM 2530 [Environmental & Analytical Chemistry II](#) (3 units)
- CHEM 2540 [Medicinal & Biological Chemistry II](#) (3 units)
- CHEM 2545 [Organic Chemistry II](#) (3 units)
- CHEM 2550 [Physical and Inorganic Chemistry II](#) (3 units)
- COMP SCI 2000 [Computer Systems](#) (3 units)

COMP SCI 2103 [Algorithm Design & Data Structures](#) (3 units)
COMP SCI 2201 [Algorithm & Data Structure Analysis](#) (3 units)
ENV BIOL 2500 [Botany II](#) (3 units)
ENV BIOL 2501 [Evolutionary Biology II](#) (3 units)
ENV BIOL 2502 [Ecology II](#) (3 units)
ENV BIOL 2503 [Zoology II](#) (3 units)
GEOLOGY 2500 [Sedimentary Geology II](#) (3 units)
GEOLOGY 2501 [Structural Geology II](#) (3 units)
GEOLOGY 2502 [Igneous and Metamorphic Geology II](#) (3 units)
GEOLOGY 2505 [Geochemistry II](#) (3 units)
MATHS 2100 [Real Analysis II](#) (3 units)
MATHS 2101 [Multivariable & Complex Calculus II](#) (3 units)
MATHS 2102 [Differential Equations II](#) (3 units)
MATHS 2104 [Numerical Methods II](#) (3 units)
PHYSICS 2510 [Physics IIA](#) (3 units)
PHYSICS 2520 [Physics IIB](#) (3 units)
PHYSICS 2530 [Astrophysics II](#) (3 units)
PHYSICS 2532 [Classical Physics II](#) (3 units)
PHYSICS 2534 [Electromagnetism II](#) (3 units)
PSYCHOL 2004 [Doing Research in Psychology](#) (3 units)
PSYCHOL 2007 [Psychology in Society](#) (3 units)

Level III

APP MTH 3002 [Fluid Mechanics III](#) (3 units)
APP MTH 3021 [Modelling with Ordinary Differential Equations III](#) (3 units)
APP MTH 3023 [Partial Differential Equations and Waves III](#) (3 units)
BIOCHEM 3000 [Molecular and Structural Biology III](#) (6 units)
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)
COMP SCI 3001 [Computer Networks & Applications](#) (3 units)
COMP SCI 3004 [Operating Systems](#) (3 units)
COMP SCI 3005 Computer Architecture (3 units)
COMP SCI 3006 [Software Engineering & Project](#) (3 units)
COMP SCI 3007 [Artificial Intelligence](#) (3 units)
COMP SCI 3306 [Mining Big Data](#) (3 units)
ENV BIOL 3004 [Freshwater Ecology III](#) (3 units)
ENV BIOL 3010 [Marine Ecology III](#) (3 units)
ENV BIOL 3121 [Concepts in Ecology III](#) (3 units)
ENV BIOL 3560 [Evolution of Australian Biota III](#) (3 units)
ENV BIOL 3580 [Conservation Biology III](#) (3 units)
ENV BIOL 3590 [Evolutionary Biology III](#) (3 units)
GEOLOGY 3013 [Tectonics III](#) (3 units)
GEOLOGY 3016 [Igneous and Metamorphic Geology III](#) (3 units)
GEOLOGY 3505 [Earth Systems History III](#) (3 units)
GEOLOGY 3525 [Mineral Resources III](#) (3 units)
MATHS 3021 [Capstone Project in Mathematical Sciences III](#) (3 units)
PALAEO 3005 [Geochronology, Fossils and Palaeoenvironments III](#) (3 units)
PHYSICS 3002 [Experimental Physics III](#) (3 units)
PHYSICS 3532 [Atmospheric and Astrophysics III](#) (3 units)
PHYSICS 3542 [Physics III](#) (6 units)
PHYSICS 3544 [Quantum Mechanics III](#) (3 units)
PSYCHOL 3022 [Individual Differences, Personality & Assessment](#) (3 units)
PSYCHOL 3023 [Perception & Cognition](#) (3 units)
PSYCHOL 3026 [Learning and Behaviour](#) (3 units)
PURE MTH 3002 [Topology and Analysis III](#) (3 units)
PURE MTH 3007 [Groups and Rings III](#) (3 units)
PURE MTH 3009 [Integration and Analysis III](#) (3 units)

PURE MTH 3019 [Complex Analysis III](#) (3 units)
PURE MTH 3023 Fields and Modules III (3 units)
SCIENCE 3200 [Communicating Science III](#) (3 units)
SCIENCE 3500 [Science International Study Tour](#) (3 units)

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