Double Degree

Science / Education (Secondary)

4076  |  192 Units of Credit

Overview

The Dual degree of Bachelor of Science Bachelor of Education (Secondary) is a four-year program (full-time) for intending secondary school teachers. Students combine studies in Science or Mathematics with both theoretical and practical aspects of education. In the final two years of the program, students develop skills in classroom competence and spend 80 days on supervised teaching practice in allocated secondary schools.
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Learning Outcomes

3970 - Science

1. Ethical, social and professional understanding including the ability to critically reflect upon broad ethical principles and codes of conduct in order to behave consistently with a personal respect and commitment to ethical practice and social responsibility, multicultural, cultural and personal diversity.

   Global Citizens  Professionals

2. Teamwork, collaborative and management skills including the ability to recognise opportunities and contribute positively to collaborative scientific research, and to demonstrate a capacity for self management, teamwork, leadership and decision making based on open-mindedness, objectivity and reasoned analysis in order to achieve common goals and further the learning of themselves and others.

   Leaders  Scholars

3. Information literacy including the ability to make appropriate and effective use of information and information technology relevant to their discipline.

   Scholars

4. Effective and appropriate communication in both professional (intra and interdisciplinary) and social (local and international) contexts.

   Scholars

5. Research, enquiry and analytical thinking abilities including the ability to construct new concepts or create new understanding through the process of enquiry, critical analysis, problem solving and research.

   Global Citizens  Leaders  Scholars

6. Capability and motivation for intellectual development; including capacity for creativity, critical evaluation, entrepreneurship and demonstrating a commitment to their own learning, motivated by curiosity and an appreciation of the value of learning.

   Professionals  Scholars

4056 - Education (Secondary)

1. Know the content and how to teach it

   Global Citizens  Professionals  Scholars

2. Assess, provide feedback and report on student learning
3. Plan for and implement effective teaching and learning

4. Engage in professional learning

5. Engage professionally with colleagues, parents/carers and the community

6. Know students and how they learn

7. Create and maintain supportive and safe learning environments

**Graduate Capabilities:**

For more information on Graduate Capabilities, please click on this link.
Stand Alone Programs

Click on the link below to find out more about each individual program.

Program 3970
Science

Program 4056
Education (Secondary)
**Double Degree Structure**

Students must complete 192 UOC.

Bachelor of Education (Secondary) (96 UOC)
1. Education Core (66 UOC)
2. Prescribed Education method electives (24 UOC)
3. Prescribed Education electives (6 UOC)

Bachelor of Science (96 UOC)
1. An approved Bachelor of Science major; and
2. Science elective courses

**Majors**

3970 - Science

Students must complete at least one Science major selected from the list below. Students should declare their major prior to commencing Stage 2 courses.

Notes:
1. Students in 4076 Science/Education can only choose from the following majors: Biology, Chemistry, Ecology, Geography, Mathematics for Education, Pathology, Physics, Physiology. All other majors in 3970 are not permitted.
2. Students are not permitted to take the Bioinformatics major BINFB1 when taking the degree in dual award mode with the Bachelor of Engineering (Bioinformatics) program.

**MAJOR:**

<table>
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</table>
MATHV1 | 66 UOC
Mathematics for Education

MATSB1 | 78 UOC
Materials Science

MICRB1 | 84 UOC
Microbiology

MSCIM1 | 78 UOC
Marine and Coastal Science

NEURS1 | 84 UOC
Neuroscience

PATHA1 | 66 UOC
Pathology

PHARA1 | 66 UOC
Pharmacology

PHSLA1 | 66 UOC
Physiology

PHYSL1 | 78 UOC
Physics

PSYCA1 | 78 UOC
Psychology

VISNA1 | 84 UOC
Vision Science

Minors
Students may choose to complete an optional minor in one of the following areas, using their Science and/or free electives. Please note that students in 4076 Science Education are NOT permitted to declare a minor.

**MINOR:**

- **ANATB2 | 36 UOC**
  Anatomy

- **ARCYB2 | 36 UOC**
  Palaeosciences

- **BIOCD2 | 42 UOC**
  Molecular Biology

- **BIOSD2 | 42 UOC**
  Biology

- **CHEMD2 | 48 UOC**
  Chemistry

- **CLIMA2 | 42 UOC**
  Climate Science

- **GEOLF2 | 36 UOC**
  Geology

- **MATHC2 | 36 UOC**
  Mathematics

- **MATHD2 | 36 UOC**
  Statistics

- **MSCIH2 | 36 UOC**
  Marine Science
Level 1 Core Courses

4056 - Education (Secondary)

You must take 18 UOC of the following courses:

EDST1101  |  6 UOC
Educational Psychology

EDST1104  |  6 UOC
Social Perspectives in Education

EDST1108  |  6 UOC
Indigenous Perspectives in Education

Level 2 Core Courses

4056 - Education (Secondary)

You must take 12 UOC of the following courses:
EDST2002 | 6 UOC
Professional Engagement

EDST2003 | 6 UOC
Learning and Teaching: Language, Literacy and Numeracy

**Level 3 Core Courses**

4056 - Education (Secondary)

You must take 18 UOC of the following courses:

EDST4080 | 6 UOC
Special Education: Inclusive Strategies

EDST4084 | 6 UOC
Managing the Classroom Environment

EDST6760 | 6 UOC
Professional Experience 1

Note: In order to be eligible for EDST6760 Professional Experience 1 students must have completed the prerequisite courses and participation and enrolment requirements for EDST6760, and sufficient subject content knowledge in their first and second teaching specialisations (methods areas). Typically, students will need to have completed 24 UOC in an appropriate minor (12 UOC at level 1 and 12 UOC at level 2 or above), and a minimum of 24 UOC in an appropriate major (12 UOC at level 1 and 12 UOC at level 2 or above).

**Level 4 Core Courses**

4056 - Education (Secondary)

You must take 18 UOC of the following courses.

Please note that EDST6765 cannot be studied concurrently with another course.

EDST4096 | 6 UOC
Responding to Gifted and Talented Students

EDST6765 | 12 UOC
Note: In order to be eligible for EDST6765 Professional Experience 2/Internship students must have completed the prerequisite courses and participation and enrolment requirements for EDST6765, and the appropriate subject content knowledge in their first and second teaching specialisations (methods areas). Typically, students will need to have completed 24 UOC in an appropriate minor (12 UOC at level 1 and 12 UOC at level 2 or above), and a minimum of 36 UOC in an appropriate major (maximum 12 UOC at level 1 and at least 12 UOC at level 3 or above).

**LANTITE**

4056 - Education (Secondary)

Successful completion of the NESA Literacy and Numeracy Test for Initial Teacher Education Students (LANTITE) test will be recorded as two zero credit courses, EDST6600 LANTITE (Literacy) and EDST6601 LANTITE (Numeracy) on your academic record.

You must complete the LANTITE test before enrolling in EDST2002 Professional Engagement.

EDST6600  0 UOC
Literacy and Numeracy Test for Initial Teacher Education Students (Literacy)

EDST6601  0 UOC
Literacy and Numeracy Test for Initial Teacher Education Students (Numeracy)

**Science Elective Courses**

3970 - Science

Students must take at least 12 UOC of the following courses.

any Anatomy course

any Aviation course

any Biotechnology & Biomolecular Sciences course
any Biological, Earth & Environmental Science course

any Biochemistry course

any Biological Science course

any Biotechnology course

any Chemistry course

any Climate Science course

any Computer Science course

any Food Technology course

any Geoscience course

any Mathematics course

any Materials Science and Engineering course

any Microbiology course

any Marine Science course

any Neuroscience course

any Optometry course

any Pathology course
any Pharmacology course

any Physiology course

any Physics course

any Psychology course

any Faculty of Science course

any Medical Science course

any Vision Science course

**Prescribed Education Methods**

4056 - Education (Secondary)

You must take four single method courses in two areas of specialisation (24 UOC), taking 12 UOC per term. The specialisations are:

4076 Sci/Ed (Sec) - Science, Physics, Earth & Environmental Science, Geography, Chemistry, Biology, Chemistry/Biology, Mathematics, Extension Mathematics

4064 Media Arts/Ed (Sec) - Graphics & Multimedia Technology, Visual Arts

4063 Fine Arts/Ed (Sec) & 4066 Design/Ed (Sec) - Graphics & Multimedia Technology, Visual Arts, Extension Visual Arts

3462 Comm/Ed (Sec) & 4058 Econ/Ed (Sec) - Business Studies, Economics

EDST6706  |  6 UOC
Geography Method 1

EDST6715  |  6 UOC
Business Studies Method 1

EDST6716  |  6 UOC
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Prescribed Elective

4056 - Education (Secondary)

You must take 6 UOC of the following courses:

EDST2032 | 6 UOC
Critical Thinking and Education

EDST2044 | 6 UOC
Motivation in Learning and Teaching

EDST2070 | 6 UOC
Culture, Identity and Education

EDST2091 | 6 UOC
Digital Literacies in Learning and Teaching

EDST2094 | 6 UOC
Communication Skills for Teachers

Level 2 Maturity Requirements

3970 - Science

Students must have completed 30 UOC before taking any of the following courses.

any level 2 course

Level 3 Maturity Requirements

3970 - Science
Students must have completed 72 UOC before taking any of the following courses.

any level 3 course

any level 6 course

**Minimum Science UOC**

3970 - Science

Students must complete a minimum of 96 UOC of the following courses.

any Anatomy course

any Computer Science course

any Food Technology course

any course offered by Faculty of Science

any Neuroscience course

any Pathology course

any Pharmacology course

any Physiology course

**Level 1 Science UOC**

3970 - Science

Students must complete a minimum of 24 UOC of the following courses.

any level 1 course offered by Faculty of Science

**Maximum Level 1 UOC**
A maximum of 72 UOC of Level 1 courses can be taken, including any General Education or mainstream Level 1 course taken to fulfil either the General Education or the Free Elective requirement.

any level 1 course

**Education Methods and Science Major Requirements**

4076 - Science / Education (Secondary)

The Prescribed Education Methods comprise Science Education Method 1 and 2 and your major specialisation Method 1 and 2 in one of the following: Physics, Earth and Environmental Science, Chemistry, Biology, Chemistry/Biology or Geography

OR

Mathematics Education Method 1 and 2 and Extension Mathematics Method 1 and 2.

To become a Mathematics Teacher you must enrol in the Mathematics for Education major and not the standard Mathematics major.

If you choose the Geography major (GEOGG1), you will be accredited by NESA to teach Science Years 7-12 by taking Science Methods 1 and 2. You will have the choice of teaching either Geography Years 7-12 or senior Earth and Environmental Science as your second first teaching specialisation. If you choose to teach Geography, you will need to take Geography Method 1 and 2. If you choose to teach senior Earth and Environmental Science, then you will need to take EES Method 1 and 2.

**Double Counting**

3970 - Science

Students cannot complete a minor with the same name as their nominated major, and Level II and III courses cannot be double-counted between majors and minors. More than one minor may be completed subject to the limit on double-counting. Students must declare their minor(s) before their final term.

**Eligibility Requirements for Professional Experience**

4056 - Education (Secondary)

The following programs require students to follow prescribed program plans in

**Sample Double Degree(s)**

To access sample program(s), please visit:

4076 Science/Education (Secondary) Sample Program

Please read the Double Degree Program rules as some specific rules apply to particular Double Degree combinations.

**Enrolment Disclaimer**

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Program Fees

At UNSW fees are generally charged at course level and therefore dependent upon individual enrolment and other factors such as student's residency status. For generic information on fees and additional expenses of UNSW programs, click on one of the following:

- Domestic Students
- Commonwealth Supported Students
- International Students
Additional Information

Not all of the majors in the Bachelor of Science are available to students in the BSc/BEd program.

Further Information

Contact the UNSW Arts and Social Sciences Student Services
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179