

## Bachelor of Education/Bachelor of Science (115JA.2)

Please note these are the 2015 details for this course

### Domestic students

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**Selection rank** 68.00

**Note:**

The selection rank is the minimum ATAR plus adjustment factors required for admission to the program in the previous year. This is an indicative guide only as ranks change each year depending on demand.

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**English language requirements**

There are non-standard English language requirements for this course. To be eligible you must have an academic IELTS or equivalent of 7.5. Students who have undertaken all of their education in an English speaking country (as defined on UC website) are deemed to have met our English language proficiency requirements.

[View IELTS equivalences](#)

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**Duration** 4.0 years

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**UAC code**

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**Faculty** Faculty of Education

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**Discipline** Academic Program Area - Education  
Academic Program Area - Science

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**Location**

### International students

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**Academic entry requirements**

To study at UC, you'll need to meet our academic entry requirements and any admission requirements specific to your course. Please read your course admission requirements below. To find out whether you meet UC's academic entry requirements, visit our academic entry requirements page.

[View UC's academic entry requirements](#)

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**English language requirements**

There are non-standard English language requirements for this course. To be eligible you must have an academic IELTS or equivalent of 7.5. Students who have undertaken all of their education in an English speaking country (as defined on UC website) are deemed to have met our English language proficiency requirements.

[View IELTS equivalences](#)

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CRICOS code	069526M
Faculty	Faculty of Education
Discipline	Academic Program Area - Education Academic Program Area - Science
Location	
Duration	4.0 years

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## About this course

### Double degree: Share your love of science with future generations

Extend your talent for science with an inspiring career in the classroom.

Become a qualified secondary school teacher and focus on the areas of science that interest you most.

Motivate others with your knowledge and skills and make a difference to how young people approach future scientific challenges.

### Combine your Bachelor of Education with a Bachelor of Science at UC to:

- develop in-depth knowledge in two of the following science areas
  - Health and PE
  - Science
  - Mathematics
  - Design and Technology
- learn how to teach secondary students in these areas
- understand the needs of learners from years 7 to 12
- gain awareness of the social context and implications for schooling
- grasp educational challenges and issues
- explore theory and research on effective teaching practices
- have flexibility to enable constructive work in educational settings
- study how to work collaboratively and ethically.

## Career opportunities

This course is registered by the ACT Teacher Quality Institute. Graduates can apply to register to teach science right across Australia.

## Important to know

- Take advantage of time and finish in 3.5 years.
- You will need to complete appropriate police checks prior to your professional experience.
- There are non-standard [English language requirements](#) for this course.

## Professional accreditation

This course is registered by the ACT Teacher Quality Institute and recognised as a teaching qualification throughout Australia.

## Admission requirements

Applicants must meet normal University requirements for admission to an undergraduate course or hold qualifications deemed to be equivalent by the University's Admissions Committee.

## Additional admission requirements

All students enrolled in this course are required to complete appropriate police checks or sign employment declaration forms prior to the commencement of their Professional Experience placement.

## Assumed knowledge

None.

## Periods course is open for new admissions

This course is not open for new admissions.

## Credit arrangements

There are currently no formal credit transfer arrangements for entry to this course. Any previous study or work experience will only be considered as part of the application process in accordance with current [course rules and university policy](#). Credit is not permitted towards completion of a graduate certificate.

## Course requirements

### Bachelor of Education/Bachelor of Science (115JA) | 96 credit points

**Required - 24 credit points as follows**

**Major in Secondary Education (MJ0197) | 24 credit points**

**Restricted Choice - Must pass 24 credit points from the following**

- [Education Foundations \(4782\) | 3 credit points – Level 1](#)
- [Indigenous Education: What Works \(6577\) | 3 credit points – Level 1](#)
- [Promoting Positive Learning Environments \(6732\) | 3 credit points – Level 2](#)
- [Responding to Individual Needs in Education \(6733\) | 3 credit points – Level 2](#)
- [Socio-Cultural Politics of Education \(6889\) | 3 credit points – Level 4](#)
- [Curriculum Studies \(6891\) | 3 credit points – Level 3](#)
- [Learning with Technology \(7840\) | 3 credit points – Level 3](#)
- [Literacy Across Disciplines \(8336\) | 3 credit points – Level 3](#)
- [Education Foundations SEC \(8822\) | 3 credit points – Level 2](#)
- [Indigenous Education: What Works SEC \(8823\) | 3 credit points – Level 1](#)
- [Learning with Technology SEC \(8824\) | 3 credit points – Level 3](#)
- [Promoting Positive Learning Environments SEC \(8825\) | 3 credit points – Level 2](#)
- [Responding to Individual Needs in Education SEC \(8826\) | 3 credit points – Level 2](#)
- [Socio-Cultural Politics of Education SEC \(8827\) | 3 credit points – Level 4](#)
- [Teacher as Researcher SEC \(8829\) | 3 credit points – Level 4](#)

**Restricted Choice - 72 credit points as follows**

**Education (UC) - 24 credit points as follows**

**Curriculum, Pedagogy & Practice 1 - Must pass 3 credit points from the following**

- [Curriculum, Pedagogy and Practice 1 \(Health and Physical Education\) \(8841\) | 3 credit points – Level 2](#)

Curriculum, Pedagogy and Practice 1 (Mathematics) (8843) | 3 credit points – Level 2

Curriculum, Pedagogy and Practice 1 (Science) (8844) | 3 credit points – Level 2

Curriculum, Pedagogy and Practice 1 (Technology - Design) (8846) | 3 credit points – Level 2

**Curriculum, Pedagogy & Practice 2 - Must pass 3 credit points from the following**

Curriculum, Pedagogy and Practice 2 (Health and Physical Education) (8850) | 3 credit points – Level 3

Curriculum, Pedagogy and Practice 2 (Mathematics) (8852) | 3 credit points – Level 3

Curriculum, Pedagogy and Practice 2 (Science) (8853) | 3 credit points – Level 3

Curriculum, Pedagogy and Practice 2 (Technology-Design) (8855) | 3 credit points – Level 3

**Curriculum, Pedagogy & Practice 3 - Must pass 3 credit points from the following**

Curriculum, Pedagogy and Practice 3 (Health and Physical Education) (8859) | 3 credit points – Level 3

Curriculum, Pedagogy and Practice 3 (Mathematics) (8861) | 3 credit points – Level 3

Curriculum, Pedagogy and Practice 3 (Science) (8862) | 3 credit points – Level 3

Curriculum, Pedagogy and Practice 3 (Technology-Design) (8864) | 3 credit points – Level 3

**Curriculum, Pedagogy & Practice 4 - Must pass 3 credit points from the following**

Curriculum, Pedagogy and Practice 4 (Health and Physical Education) (8868) | 3 credit points – Level 4

Curriculum, Pedagogy and Practice 4 (Mathematics) (8870) | 3 credit points – Level 4

Curriculum, Pedagogy and Practice 4 (Science) (8871) | 3 credit points – Level 4

Curriculum, Pedagogy and Practice 4 (Technology-Design) (8873) | 3 credit points – Level 4

- Alternative Units: With permission of the Course Convener, students may substitute units in the Curriculum, Pedagogy and Practice or Restricted Choice Units lists with others.

- Professional Experience units are an essential component of this course. Students who do not complete these units will not be able to meet the academic requirements of the Bachelor of Education.

**Restricted Choice Units - Must pass 12 credit points from the following**

Disorders in Development (4792) | 3 credit points – Level 1

Advocacy & Inclusion (4919) | 3 credit points – Level 1

Community Work (6874) | 3 credit points – Level 2

Sustainable Communities (6875) | 3 credit points – Level 2

Scaffolding Literacy Education (7150) | 3 credit points – Level 2

Teaching English as a Second Language (7152) | 3 credit points – Level 4

Promoting Health and Wellbeing (8693) | 3 credit points – Level 1

Adolescent Health Issues (8694) | 3 credit points – Level 3

Health in Contemporary Society (8695) | 3 credit points – Level 1

Working with Communities (9426) | 3 credit points – Level 2

**Science - 48 credit points as follows**

**First Teaching Area of Science - Must do at least 2 of the following**

**Part A - Must do at least 1 of the following**

**Major in Biology 2 (MJ0133) | 18 credit points**

**Required - Must pass 3 credit points as follows**

Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1

**Restricted Choice - 15 credit points as follows**

**Part A - May do up to 3 credit points from the following**

- Concepts in Biology (483) | 3 credit points – Level 1
- Plants and Animals (623) | 3 credit points – Level 1
- Earth System Science (8101) | 3 credit points – Level 1

**Part B - May do up to 6 credit points from the following**

- Introduction to Microbiology (6510) | 3 credit points – Level 2
- Human Biochemistry (6518) | 3 credit points – Level 2
- Biochemistry (6530) | 3 credit points – Level 2
- Genetics (6531) | 3 credit points – Level 2
- Biometry (6913) | 3 credit points – Level 2
- Ecochemistry (6915) | 3 credit points – Level 2
- Ecology and Biodiversity (6916) | 3 credit points – Level 2
- Principles of Ecology (6920) | 3 credit points – Level 2
- Analytical Chemistry (8043) | 3 credit points – Level 2
- Molecular and Cellular Biology (8375) | 3 credit points – Level 2
- Conservation Genetics (8504) | 3 credit points – Level 2
- Australian Landscapes, Regolith and Soils (8781) | 3 credit points – Level 2
- Genetics and Genomics (10223) | 3 credit points – Level 2

Note:

- 10235 Tackling Environmental Challenges replaces 6916 Ecology and Biodiversity from 2017. Students who have previously completed 6916 may still count it towards course completion.

**Part C - Must pass at least 6 credit points from the following**

- Immunology (6512) | 3 credit points – Level 3
- Human Physiology and the Lifecycle (6532) | 3 credit points – Level 3
- Experiment Design and Analysis (6542) | 3 credit points – Level 3
- Australian Waterways (6912) | 3 credit points – Level 3
- Vegetation and Wildlife Ecology (6922) | 3 credit points – Level 3
- Advanced Physiology (8373) | 3 credit points – Level 3
- Population Genetics (8675) | 3 credit points – Level 3
- Pathobiology (8797) | 3 credit points – Level 3
- Conservation Biology (8898) | 3 credit points – Level 3
- Biostatistics (10222) | 3 credit points – Level 2

Note:

- 10226 Freshwater Biology replaces 6912 Australian Waterways from 2017. Students who have previously completed 6912 may still count it towards course completion.

**Major in Biology 1 (MJ0132) | 18 credit points**

**Required - Must pass 6 credit points as follows**

- Concepts in Biology (483) | 3 credit points – Level 1
- Plants and Animals (623) | 3 credit points – Level 1

**Restricted Choice - Must pass 12 credit points as follows**

**Part A - May do up to 3 credit points from the following**

- Chemistry 1a (1516) | 3 credit points – Level 1
- Chemistry 1b (1517) | 3 credit points – Level 1
- Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1
- Earth System Science (8101) | 3 credit points – Level 1

**Part B - May do up to 6 credit points from the following**

- Introduction to Microbiology (6510) | 3 credit points – Level 2
- Human Biochemistry (6518) | 3 credit points – Level 2
- Biochemistry (6530) | 3 credit points – Level 2
- Genetics (6531) | 3 credit points – Level 2
- Regional Anatomy and Physiology (6534) | 3 credit points – Level 2
- Biometry (6913) | 3 credit points – Level 2
- Ecochemistry (6915) | 3 credit points – Level 2
- Ecology and Biodiversity (6916) | 3 credit points – Level 2
- Principles of Ecology (6920) | 3 credit points – Level 2
- Molecular and Cellular Biology (8375) | 3 credit points – Level 2
- Conservation Genetics (8504) | 3 credit points – Level 2
- Australian Landscapes, Regolith and Soils (8781) | 3 credit points – Level 2
- Genetics and Genomics (10223) | 3 credit points – Level 2

Note:

- 10235 Tackling Environmental Challenges replaces 6916 Ecology and Biodiversity from 2017. Students who have previously completed 6916 may still count it towards course completion

**Part C - Must do at least 3 credit points from the following**

- Immunology (6512) | 3 credit points – Level 3
- Human Physiology and the Lifecycle (6532) | 3 credit points – Level 3
- Experiment Design and Analysis (6542) | 3 credit points – Level 3
- Australian Waterways (6912) | 3 credit points – Level 3
- Vegetation and Wildlife Ecology (6922) | 3 credit points – Level 3
- Advanced Physiology (8373) | 3 credit points – Level 3
- Population Genetics (8675) | 3 credit points – Level 3
- Pathobiology (8797) | 3 credit points – Level 3
- Conservation Biology (8898) | 3 credit points – Level 3
- Biostatistics (10222) | 3 credit points – Level 2

Note:

- 10226 Freshwater Biology replaces 6912 Australian Waterways from 2017. Students who have previously completed 6912 may still count it towards course completion.

**Major in Chemistry (MJ0136) | 18 credit points**

**Required - Must pass 12 credit points as follows**

Chemistry 1a (1516) | 3 credit points – Level 1

Chemistry 1b (1517) | 3 credit points – Level 1

Biochemistry (6530) | 3 credit points – Level 2

Analytical Chemistry (8043) | 3 credit points – Level 2

**Restricted Choice - Must pass 6 credit points from the following**

Human Biochemistry (6518) | 3 credit points – Level 2

Ecochemistry (6915) | 3 credit points – Level 2

Environmental Forensic Science (6923) | 3 credit points – Level 2

Forensic Chemistry: CIT (6924) | 3 credit points – Level 3

Clinical Chemistry 1 (8071) | 3 credit points – Level 3

Clinical Chemistry 2 (8072) | 3 credit points – Level 3

Applied Geochemistry (8100) | 3 credit points – Level 3

Environmental Forensic Science (8248) | 3 credit points – Level 3

Forensic Chemistry (8376) | 3 credit points – Level 3

**Part B - Must do at least 1 of the following**

**Major in Applied Ecology (MJ0008) | 18 credit points**

**Restricted Choice - Must pass 18 credit points from the following**

Concepts in Biology (483) | 3 credit points – Level 1

Data Analysis in Science (1809) | 3 credit points – Level 1

Experiment Design and Analysis (6542) | 3 credit points – Level 3

Biometry (6913) | 3 credit points – Level 2

Ecology and Biodiversity (6916) | 3 credit points – Level 2

Principles of Ecology (6920) | 3 credit points – Level 2

Vegetation and Wildlife Ecology (6922) | 3 credit points – Level 3

Conservation Biology (8898) | 3 credit points – Level 3

Note:

- 10235 Tackling Environmental Challenges replaces 6916 Ecology and Biodiversity from 2017. Students who have previously completed 6916 may still count it towards course completion

**Minor in Environmental Management (MN0037) | 12 credit points**

**Restricted Choice - 6 credit points as follows**

**Part A - Must pass 3 credit points from the following**

Indigenous Societies and Heritage (8158) | 3 credit points – Level 3

Indigenous Heritage and Landscapes (9634) | 3 credit points – Level 3

**Part B - Must pass 3 credit points from the following**

Communication in Science (4732) | 3 credit points – Level 1

Science, Environment & Society (4916) | 3 credit points – Level 1

Sustainable Communities (6875) | 3 credit points – Level 2

Science, Environment and Sustainability (8667) | 3 credit points – Level 1

Quantitative Skills for Sustainability (8784) | 3 credit points – Level 1

**Required - Must pass 6 credit points as follows**

Environmental Conflict and Management (6917) | 3 credit points – Level 3

Environmental Planning and Assessment (6918) | 3 credit points – Level 3

**Minor in Environmental Assessment (MN0031) | 12 credit points**

**Required - Must pass 12 credit points as follows**

Chemistry 1a (1516) | 3 credit points – Level 1

Australian Waterways (6912) | 3 credit points – Level 3

Ecochemistry (6915) | 3 credit points – Level 2

Geographic Information Systems (6919) | 3 credit points – Level 2

Note:

- 10226 Freshwater Biology replaces 6912 Australian Waterways from 2017. Students who have previously completed 6912 may still count it towards course completion

**Minor in Biological Chemistry (MN0008) | 12 credit points**

**Required - Must pass 12 credit points as follows**

Chemistry 1a (1516) | 3 credit points – Level 1

Chemistry 1b (1517) | 3 credit points – Level 1

Human Biochemistry (6518) | 3 credit points – Level 2

Biochemistry (6530) | 3 credit points – Level 2

**Minor in Ecology (MN0028) | 12 credit points**

**Required - Must pass 12 credit points as follows**

Concepts in Biology (483) | 3 credit points – Level 1

Plants and Animals (623) | 3 credit points – Level 1

Ecology and Biodiversity (6916) | 3 credit points – Level 2

Principles of Ecology (6920) | 3 credit points – Level 2

Note:

- 10235 Tackling Environmental Challenges replaces 6916 Ecology and Biodiversity from 2017. Students who have previously completed 6916 may still count it towards course completion.

**Minor in Biology 2 (MN0010) | 12 credit points**

**Required - Must pass 3 credit points as follows**

Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1

**Restricted Choice - 9 credit points as follows**

**Part A - Must pass 6 credit points from the following**

Concepts in Biology (483) | 3 credit points – Level 1

Plants and Animals (623) | 3 credit points – Level 1

Introduction to Microbiology (6510) | 3 credit points – Level 2

Immunology (6512) | 3 credit points – Level 3

Human Biochemistry (6518) | 3 credit points – Level 2

Biochemistry (6530) | 3 credit points – Level 2

Genetics (6531) | 3 credit points – Level 2



Human Physiology and the Lifecycle (6532) | 3 credit points – Level 3  
Experiment Design and Analysis (6542) | 3 credit points – Level 3  
Australian Waterways (6912) | 3 credit points – Level 3  
Biometry (6913) | 3 credit points – Level 2  
Ecochemistry (6915) | 3 credit points – Level 2  
Ecology and Biodiversity (6916) | 3 credit points – Level 2  
Principles of Ecology (6920) | 3 credit points – Level 2  
Vegetation and Wildlife Ecology (6922) | 3 credit points – Level 3  
Clinical Microbiology (8027) | 3 credit points – Level 3  
Earth System Science (8101) | 3 credit points – Level 1  
Advanced Physiology (8373) | 3 credit points – Level 3  
Molecular and Cellular Biology (8375) | 3 credit points – Level 2  
Conservation Genetics (8504) | 3 credit points – Level 2  
Population Genetics (8675) | 3 credit points – Level 3  
Australian Landscapes, Regolith and Soils (8781) | 3 credit points – Level 2  
Pathobiology (8797) | 3 credit points – Level 3  
Conservation Biology (8898) | 3 credit points – Level 3  
Biostatistics (10222) | 3 credit points – Level 2  
Genetics and Genomics (10223) | 3 credit points – Level 2

Note:

- 10226 Freshwater Biology replaces 6912 Australian Waterways from 2017. Students who have previously completed 6912 may still count it towards course completion
- 10235 Tackling Environmental Challenges replaces 6916 Ecology and Biodiversity from 2017. Students who have previously completed 6916 may still count it towards course completion

**Part B - Must pass 3 credit points from the following**

Regional Anatomy and Physiology (6534) | 3 credit points – Level 2  
Comparative Physiology 1 (8309) | 3 credit points – Level 1  
Regional Anatomy and Physiology (9808) | 3 credit points – Level 1

**Minor in Chemistry (MN0017) | 12 credit points**

**Required - Must pass 9 credit points as follows**

Chemistry 1a (1516) | 3 credit points – Level 1  
Chemistry 1b (1517) | 3 credit points – Level 1  
Analytical Chemistry (8043) | 3 credit points – Level 2

**Restricted Choice - Must pass 3 credit points from the following**

Biochemistry (6530) | 3 credit points – Level 2  
Ecochemistry (6915) | 3 credit points – Level 2

**Minor in Biology 1 (MN0009) | 12 credit points**

**Required - Must pass 6 credit points as follows**

Concepts in Biology (483) | 3 credit points – Level 1  
Plants and Animals (623) | 3 credit points – Level 1

**Restricted Choice - Must pass 6 credit points from the following**

Introduction to Microbiology (6510) | 3 credit points – Level 2

Immunology (6512) | 3 credit points – Level 3

Clinical Chemistry Instrumentation (6515) | 3 credit points – Level 3

Human Biochemistry (6518) | 3 credit points – Level 2

Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1

Biochemistry (6530) | 3 credit points – Level 2

Genetics (6531) | 3 credit points – Level 2

Human Physiology and the Lifecycle (6532) | 3 credit points – Level 3

Regional Anatomy and Physiology (6534) | 3 credit points – Level 2

Experiment Design and Analysis (6542) | 3 credit points – Level 3

Australian Waterways (6912) | 3 credit points – Level 3

Biometry (6913) | 3 credit points – Level 2

Ecochemistry (6915) | 3 credit points – Level 2

Ecology and Biodiversity (6916) | 3 credit points – Level 2

Principles of Ecology (6920) | 3 credit points – Level 2

Vegetation and Wildlife Ecology (6922) | 3 credit points – Level 3

Analytical Chemistry (8043) | 3 credit points – Level 2

Earth System Science (8101) | 3 credit points – Level 1

Comparative Physiology 1 (8309) | 3 credit points – Level 1

Advanced Physiology (8373) | 3 credit points – Level 3

Molecular and Cellular Biology (8375) | 3 credit points – Level 2

Conservation Genetics (8504) | 3 credit points – Level 2

Population Genetics (8675) | 3 credit points – Level 3

Australian Landscapes, Regolith and Soils (8781) | 3 credit points – Level 2

Pathobiology (8797) | 3 credit points – Level 3

Conservation Biology (8898) | 3 credit points – Level 3

Regional Anatomy and Physiology (9808) | 3 credit points – Level 1

Biostatistics (10222) | 3 credit points – Level 2

Genetics and Genomics (10223) | 3 credit points – Level 2

**Note:**

- 10226 Freshwater Biology replaces 6912 Australian Waterways from 2017. Students who have previously completed 6912 may still count it towards course completion
- 10235 Tackling Environmental Challenges replaces 6916 Ecology and Biodiversity from 2017. Students who have previously completed 6916 may still count it towards course completion.

**Major in Environmental Assessment (MJ0039) | 18 credit points**

**Required - Must pass 12 credit points as follows**

Chemistry 1a (1516) | 3 credit points – Level 1

Data Analysis in Science (1809) | 3 credit points – Level 1

Ecochemistry (6915) | 3 credit points – Level 2

Geographic Information Systems (6919) | 3 credit points – Level 2

**Restricted Choice - Must pass 6 credit points from the following**

Experiment Design and Analysis (6542) | 3 credit points – Level 3

Australian Waterways (6912) | 3 credit points – Level 3

Biometry (6913) | 3 credit points – Level 2

Environmental Planning and Assessment (6918) | 3 credit points – Level 3

Vegetation and Wildlife Ecology (6922) | 3 credit points – Level 3

Note:

- 10226 Freshwater Biology replaces 6912 Australian Waterways from 2017. Students who have previously completed 6912 may still count it towards course completion.

**Major in Integrated Environmental Management (MJ0060) | 18 credit points**

**Required - Must pass 18 credit points as follows**

Concepts in Biology (483) | 3 credit points – Level 1

Plants and Animals (623) | 3 credit points – Level 1

Ecology and Biodiversity (6916) | 3 credit points – Level 2

Environmental Conflict and Management (6917) | 3 credit points – Level 3

Environmental Planning and Assessment (6918) | 3 credit points – Level 3

Principles of Ecology (6920) | 3 credit points – Level 2

Note:

- 10235 Tackling Environmental Challenges replaces 6916 Ecology and Biodiversity from 2017. Students who have previously completed 6916 may still count it towards course completion.

**Minor in Human Biology (MN0042) | 12 credit points**

**Required - Must pass 9 credit points as follows**

Concepts in Biology (483) | 3 credit points – Level 1

Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1

Pathobiology (8797) | 3 credit points – Level 3

**Restricted Choice - Must pass 3 credit points from the following**

Regional Anatomy and Physiology (6534) | 3 credit points – Level 2

Comparative Physiology 1 (8309) | 3 credit points – Level 1

Regional Anatomy and Physiology (9808) | 3 credit points – Level 1

**Major in Human Biology: Chemical & Molecular Principles (MJ0053) | 18 credit points**

**Required - Must pass 12 credit points as follows**

Chemistry 1a (1516) | 3 credit points – Level 1

Data Analysis in Science (1809) | 3 credit points – Level 1

Introduction to Microbiology (6510) | 3 credit points – Level 2

Biochemistry (6530) | 3 credit points – Level 2

**Restricted Choice - 6 credit points as follows**

**Part A - Must pass 3 credit points from the following**

Nutritional Science 1 (6507) | 3 credit points – Level 3

Integrated Studies of Disease (6517) | 3 credit points – Level 3

**Part B - Must pass 3 credit points from the following**

Genetics (6531) | 3 credit points – Level 2

Genetics and Genomics (10223) | 3 credit points – Level 2

**Major in Human Biology: From Cells to Organism (MJ0050) | 18 credit points**

**Required - Must pass 15 credit points as follows**

Concepts in Biology (483) | 3 credit points – Level 1

Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1

Human Physiology and the Lifecycle (6532) | 3 credit points – Level 3

Advanced Physiology (8373) | 3 credit points – Level 3

Pathobiology (8797) | 3 credit points – Level 3

**Restricted Choice - Must pass 3 credit points from the following**

Regional Anatomy and Physiology (6534) | 3 credit points – Level 2

Comparative Physiology 1 (8309) | 3 credit points – Level 1

Regional Anatomy and Physiology (9808) | 3 credit points – Level 1

Note:

- The unit code for Regional Anatomy and Physiology changed in 2015 and only the newer code is available for enrolment.

**Other First Teaching Areas - May do up to 1 of the following**

**First Teaching Area of Mathematics - May select from**

**Major in Mathematics (MJ0148) | 18 credit points**

**Required - Must pass 18 credit points as follows**

Mathematical Methods (577) | 3 credit points – Level 1

Mathematical Structures (6543) | 3 credit points – Level 2

Discrete Mathematics (6698) | 3 credit points – Level 1

Mathematical Modelling (8103) | 3 credit points – Level 2

Mathematical Perspectives (8104) | 3 credit points – Level 3

Linear Algebra (8110) | 3 credit points – Level 2

**First Teaching Area of Health & Physical Education - May select from**

**Major in Health (Restricted) (MJ0146) | 18 credit points**

**Required - Must pass 15 credit points as follows**

Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1

Regional Anatomy and Physiology (6534) | 3 credit points – Level 2

Promoting Health and Wellbeing (8693) | 3 credit points – Level 1

Adolescent Health Issues (8694) | 3 credit points – Level 3

Health in Contemporary Society (8695) | 3 credit points – Level 1

**Restricted Choice - Must pass 3 credit points from the following**

Human Physiology and the Lifecycle (6532) | 3 credit points – Level 3

Nutrition, Society and Health (8259) | 3 credit points – Level 3

**Minor in Physical Skills (Restricted) (MNO113) | 12 credit points**

**Restricted Choice - Must pass 12 credit points from the following**

- Acquisition of Skills 1 (5965) | 3 credit points – Level 1
- Motor Control (6833) | 3 credit points – Level 2
- Advanced Coaching Studies (6840) | 3 credit points – Level 3
- Acquisition of Skills 4 (7561) | 3 credit points – Level 2
- Acquisition of Skills 3 (8021) | 3 credit points – Level 2
- Acquisition of Skills 2 (8189) | 3 credit points – Level 1
- Physiological Exercise Mechanisms and Conditioning (8380) | 3 credit points – Level 2
- Introduction to Coaching Science (8388) | 3 credit points – Level 1
- Exercise Programming and Prescription (8911) | 3 credit points – Level 2
- Sport Coaching Principles (8912) | 3 credit points – Level 1
- Motor Control and Skill Acquisition (8913) | 3 credit points – Level 2
- Sport Coaching Pedagogy (8914) | 3 credit points – Level 2

**First Teaching Area of Computing - May select from**

**Major in Information Systems (MJ0059) | 18 or 21 or 24 credit points**

**For the 18cp Major - Must pass 18 credit points as follows**

**Required - Must pass 15 credit points as follows**

- Database Design (5915) | 3 credit points – Level 1
- Information Systems in Organisations (6348) | 3 credit points – Level 1
- Systems Analysis and Modelling (6365) | 3 credit points – Level 2
- Designing Human-Computer Interaction (6389) | 3 credit points – Level 2
- Systems Project and Quality Management (7173) | 3 credit points – Level 3

**Restricted Choice - Must pass 3 credit points from the following**

- Document and Workflow Management (6388) | 3 credit points – Level 3
- Business Intelligence Systems (7156) | 3 credit points – Level 3
- General Systems Theory (7161) | 3 credit points – Level 3
- Information Security (7162) | 3 credit points – Level 3
- Information Systems Management (7163) | 3 credit points – Level 3

**For the 21cp Major - Must pass 21 credit points as follows**

**Required - Must pass 15 credit points as follows**

- Database Design (5915) | 3 credit points – Level 1
- Information Systems in Organisations (6348) | 3 credit points – Level 1
- Systems Analysis and Modelling (6365) | 3 credit points – Level 2
- Designing Human-Computer Interaction (6389) | 3 credit points – Level 2
- Systems Project and Quality Management (7173) | 3 credit points – Level 3

**Restricted Choice - Must pass 6 credit points from the following**

- Document and Workflow Management (6388) | 3 credit points – Level 3
- Business Intelligence Systems (7156) | 3 credit points – Level 3
- General Systems Theory (7161) | 3 credit points – Level 3

Information Security (7162) | 3 credit points – Level 3

Information Systems Management (7163) | 3 credit points – Level 3

**For the 24cp Major - Must pass 24 credit points as follows**

**Required - Must pass 15 credit points as follows**

Database Design (5915) | 3 credit points – Level 1

Information Systems in Organisations (6348) | 3 credit points – Level 1

Systems Analysis and Modelling (6365) | 3 credit points – Level 2

Designing Human-Computer Interaction (6389) | 3 credit points – Level 2

Systems Project and Quality Management (7173) | 3 credit points – Level 3

**Restricted Choice - Must pass 9 credit points from the following**

Document and Workflow Management (6388) | 3 credit points – Level 3

Business Intelligence Systems (7156) | 3 credit points – Level 3

General Systems Theory (7161) | 3 credit points – Level 3

Information Security (7162) | 3 credit points – Level 3

Information Systems Management (7163) | 3 credit points – Level 3

**Minor in Software Engineering (MN0109) | 12 credit points**

**Required - Must pass 9 credit points as follows**

Introduction to Information Technology (4478) | 3 credit points – Level 1

Software Technology 1 (4483) | 3 credit points – Level 1

Software Technology 2 (7170) | 3 credit points – Level 2

**Restricted Choice - Must pass 3 credit points from the following**

Distributed Systems Technology (7159) | 3 credit points – Level 3

Object Oriented Software Design (7165) | 3 credit points – Level 3

**Other First Teaching Areas - May select from**

**Minor in Mathematical Structures and Computation (MN0072) | 12 credit points**

**Required - Must pass 12 credit points as follows**

Coding Theory (6539) | 3 credit points – Level 3

Mathematical Structures (6543) | 3 credit points – Level 2

Discrete Mathematics (6698) | 3 credit points – Level 1

Mathematics for Information Sciences (7089) | 3 credit points – Level 1

**Minor in Information Systems (MN0045) | 12 credit points**

**Required - Must pass 12 credit points as follows**

Database Design (5915) | 3 credit points – Level 1

Information Systems in Organisations (6348) | 3 credit points – Level 1

Systems Analysis and Modelling (6365) | 3 credit points – Level 2

Designing Human-Computer Interaction (6389) | 3 credit points – Level 2

Note:

- From 2019 the unit code for 6365 Systems Analysis and Modelling has changed to 11486.

Note:

- Or other Unit Sets approved by the Course Convener.

Note:

- Must pass two 18 credit point Majors and one 12 credit point Minor from the following.

In addition to course requirements, in order to successfully complete your course you may need to meet the inherent requirements. Please refer to the [inherent requirements statement](#) applicable to your course

## Typical study pattern UC - Canberra, Bruce

Accelerated Full Time, Semester 1 Commencing

### Year 1

#### Semester 1

Second Science Major Unit

Science Minor Unit

Restricted Choice Education Unit

First Science Major Unit

#### Semester 2

Second Science Major Unit

Restricted Choice Education Unit

Science Minor Unit

First Science Major Unit

### Year 2

#### Semester 1

Education Foundations SEC (8822)

First Science Major Unit

Curriculum, Pedagogy & Practice 1 Unit

Second Science Major Unit

#### Semester 2

First Science Major Unit

Science Minor Unit

Indigenous Education: What Works SEC (8823)

Second Science Major Unit

#### Winter Term

Learning  
with  
Technology  
SEC (8824)  
Responding  
to  
Individual  
Needs in  
Education  
SEC (8826)

### Year 3

#### Semester 1

First Science Major Unit

Second Science Major Unit

Restricted Choice Education Unit

Curriculum, Pedagogy & Practice 2 Unit

#### Semester 2

First Science Major Unit

Second Science Major Unit

Curriculum, Pedagogy & Practice 3 Unit

[Literacy Across Disciplines \(8336\)](#)

#### Winter Term

[Socio-  
Cultural  
Politics of  
Education  
SEC \(8827\)](#)

**Year 4**

**Semester 1**

Restricted Choice Education Unit

Curriculum, Pedagogy & Practice 4 Unit

Science Minor Unit

Promoting Positive Learning Environments SEC (8825)

Accelerated Full Time, Semester 2 Commencing

**Year 1**

**Semester 2**

First Science Major Unit

Science Minor Unit

Restricted Choice Education Unit

Second Science Major Unit

**Year 2**

**Semester 1**

Education Foundations SEC (8822)

Promoting Positive Learning Environments SEC (8825)

Second Science Major Unit

Curriculum, Pedagogy & Practice 1 Unit

**Semester 2**

Second Science Major Unit

Science Minor Unit

Two First Science Major Units

**Winter  
Term**

Learning  
with  
Technology  
SEC (8824)  
Responding  
to  
Individual  
Needs in  
Education  
SEC (8826)

**Year 3**

**Semester 1**

Second Science Major Unit

Two First Science Major Units

Curriculum, Pedagogy & Practice 2 Unit

**Semester 2**

Curriculum, Pedagogy & Practice 3 Unit

Restricted Choice Education Unit

Indigenous Education: What Works SEC (8823)

**Winter  
Term**

Socio-  
Cultural  
Politics of



**Year 4**

**Semester 1**

Science Minor Unit

Two Restricted Choice Education Units

Curriculum, Pedagogy & Practice 4 Unit

Standard Full Time, Semester 1 Commencing

**Semester 2**

First Science Major Unit

Two Second Science Major Units

Science Minor Unit

**Year 1**

**Semester 1**

Science Minor Unit

Second Science Major Unit

Restricted Choice Education Unit

First Science Major Unit

**Semester 2**

Science Minor Unit

Second Science Major Unit

Restricted Choice Education Unit

First Science Major Unit

**Year 2**

**Semester 1**

Curriculum, Pedagogy & Practice 1 Unit

First Science Major Unit

Education Foundations SEC (8822)

Second Science Major Unit

**Semester 2**

Second Science Major Unit

Science Minor Unit

First Science Major Unit

Indigenous Education: What Works SEC (8823)

**Year 3**

**Semester 1**

Learning with Technology SEC (8824)

First Science Major Unit

Second Science Major Unit

Curriculum, Pedagogy & Practice 2 Unit

**Semester 2**

[Socio-Cultural Politics of Education SEC \(8827\)](#)

Curriculum, Pedagogy & Practice 3 Unit

[Literacy Across Disciplines \(8336\)](#)

Responding to Individual Needs in Education SEC (8826)

**Year 4**

**Semester 1**

Curriculum, Pedagogy &amp; Practice 4 Unit

Science Minor Unit

Restricted Choice Education Unit

Promoting Positive Learning Environments SEC (8825)

Standard Full Time, Semester 2 Commencing

**Year 1****Semester 2**

Restricted Choice Education Unit

First Science Major Unit

Science Minor Unit

Second Science Major Unit

**Year 2****Semester 1**

Second Science Major Unit

First Science Major Unit

Science Minor Unit

Restricted Choice Education Unit

**Year 3****Semester 1**

Curriculum, Pedagogy &amp; Practice 1 Unit

Second Science Major Unit

Education Foundations SEC (8822)

First Science Major Unit

**Year 4****Semester 1**

Second Science Major Unit

Learning with Technology SEC (8824)

Curriculum, Pedagogy &amp; Practice 2 Unit

First Science Major Unit

**Semester 2**[Teacher as Researcher SEC \(8829\)](#)

Restricted Choice Education Unit

First Science Major Unit

Second Science Major Unit

**Semester 2**

First Science Major Unit

Second Science Major Unit

Responding to Individual Needs in Education SEC (8826)

Science Minor Unit

**Semester 2**

Indigenous Education: What Works SEC (8823)

[Literacy Across Disciplines \(8336\)](#)

Restricted Choice Education Unit

[Socio-Cultural Politics of Education SEC \(8827\)](#)**Semester 2**[Teacher as Researcher SEC \(8829\)](#)

Curriculum, Pedagogy &amp; Practice 3 Unit

Second Science Major Unit

Year 5

Semester 1

Curriculum, Pedagogy & Practice 4 Unit

Science Minor Unit

Restricted Choice Education Unit

Promoting Positive Learning Environments SEC (8825)

## Course information

## Course duration

Standard eight semesters full-time or equivalent. Maximum 20 semesters.

## Learning outcomes

Learning outcomes	Related graduate attributes
In depth critical knowledge in two key learning areas and teaching pedagogy for secondary students	4. Problem Solving: Graduates are expected to be able to: a) identify problems and analyse the main features of problems relevant to their professional field; b) apply appropriate problem solving processes, arguments, critical and creative thinking; c) implement and evaluate strategies for the resolution of problems; d) anticipate and define new problems; and e) identify and resolve new problems in new fields.
Theory and skills in facilitating the learning of secondary school students	1. Communication: Graduates are expected to be able to: a) express knowledge, ideas and opinions in their professional field, both orally and in written form, with confidence and clarity; b) present arguments and ideas effectively; c) actively listen and respond to the ideas of other people; d) negotiate effectively; and e) create and present new ideas. 9. Lifelong Learning: Graduates are expected to: a) be independent self-directed learners with the capacity and motivation for lifelong learning; b) be aware of how they best learn; c) possess self-knowledge and the ability to assess their own performance critically and accurately; and d) have an understanding of how to apply their knowledge and abilities to many different contexts and fields. 10. Personal Attributes: Graduates are expected to: a) be independent thinkers and agents for change; c) have confidence to challenge existing ideas; d) show commitment to ongoing self-development; e) value and respect differing views; and f) be confident in themselves and their own skills and knowledge.
Teaching practice is informed by research on effective teaching	2. Information Literacy and Numeracy: Graduates are expected to be able to locate, identify, collate, analyse, manipulate, evaluate, interpret and present information and numerical data. 3. Information and Communication Technology: Graduates are expected to be able to select and use appropriate information and communication technology to retrieve, manipulate and present information.
Awareness of social context and self	5. Working With Others: Graduates are expected to be able to: a) work with others as part of a group; b) take

awareness; capacity to work collaboratively and ethically in a team environment

responsibility for carrying out agreed tasks; c) be aware of the different roles and responsibilities of group members; d) evaluate group performance; f) take initiative and demonstrate leadership; and g) respect the rights of others irrespective of their cultural background, race or gender. 6. Effective Workplace Skills: Graduates are expected to: a) demonstrate entrepreneurial skills including creativity, initiative, adaptability, leadership, resourcefulness; b) have the ability to initiate new ideas, implement decisions and cope with uncertainty; and c) be able to function in a multi-cultural or global environment. 7. Professional Ethics: Graduates are expected to: a) act responsibly, ethically and with integrity in the context of their profession and their obligations to society; and b) appreciate the social and cultural context of their profession. 8. Social Responsibility: Graduates are expected to: a) work toward improvement in society; b) understand economic, political, social, and environmental systems with an international perspective; c) act in environmentally sustainable ways; and d) accept service to the community as the primary purpose for professional life.

## Majors

- [Major in Secondary Education \(MJ0197\)](#)
- [Major in Biology 1 \(MJ0132\)](#)
- [Major in Chemistry \(MJ0136\)](#)
- [Major in Human Biology: Chemical & Molecular Principles \(MJ0053\)](#)
- [Major in Human Biology: From Cells to Organism \(MJ0050\)](#)
- [Minor in Mathematical Structures and Computation \(MN0072\)](#)
- [Major in Information Systems \(MJ0059\)](#)
- [Minor in Chemistry \(MN0017\)](#)
- [Major in Environmental Assessment \(MJ0039\)](#)
- [Minor in Information Systems \(MN0045\)](#)
- [Minor in Software Engineering \(MN0109\)](#)
- [Minor in Human Biology \(MN0042\)](#)
- [Major in Biology 2 \(MJ0133\)](#)
- [Minor in Environmental Management \(MN0037\)](#)
- [Minor in Biology 2 \(MN0010\)](#)
- [Minor in Biology 1 \(MN0009\)](#)
- [Major in Mathematics \(MJ0148\)](#)
- [Major in Health \(Restricted\) \(MJ0146\)](#)
- [Major in Applied Ecology \(MJ0008\)](#)
- [Minor in Environmental Assessment \(MN0031\)](#)
- [Minor in Ecology \(MN0028\)](#)
- [Minor in Physical Skills \(Restricted\) \(MN0113\)](#)
- [Minor in Biological Chemistry \(MN0008\)](#)
- [Major in Integrated Environmental Management \(MJ0060\)](#)

## Awards

Award	Official abbreviation
Bachelor of Education	BEd

## Honours

Refer to individual courses.

## Enquiries

Student category	Contact details
Prospective Domestic Students	Email <a href="mailto:study@canberra.edu.au">study@canberra.edu.au</a> or Phone 1800 UNI CAN (1800 864 226)
Prospective International Students	Email <a href="mailto:international@canberra.edu.au">international@canberra.edu.au</a> or Phone +61 2 6201 5342
Current and Commencing Students	Please contact the University Student Centre by Email <a href="mailto:student.centre@canberra.edu.au">student.centre@canberra.edu.au</a> or Phone 1300 301 727

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UC acknowledges the Ngunnawal people, traditional custodians of the lands where Bruce campus is situated. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of Canberra and the region. We also acknowledge all other First Nations Peoples on whose lands we gather.