

# Bachelor of Applied Science in Forensic Studies

## (142JA.3)

Please note these are the 2021 details for this course

### Domestic students

Selection rank	60 <b>Note:</b> 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.
Delivery mode	On campus
Location	Bruce, Canberra
Duration	3.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Science
UAC code	368044
English language requirements	An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent). <a href="#">View IELTS equivalences</a>

### International students

<b>Academic entry requirements</b>	<p>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 <a href="#">academic entry requirements page</a>.</p> <p><a href="#">View UC's academic entry requirements</a></p>
<b>Delivery mode</b>	On campus
<b>Location</b>	Bruce, Canberra
<b>Duration</b>	3.0 years
<b>Faculty</b>	Faculty of Science and Technology
<b>Discipline</b>	Academic Program Area - Science
<b>CRICOS code</b>	071069B
<b>English language requirements</b>	<p>An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent).</p> <p><a href="#">View IELTS equivalences</a></p>

# About this course

## Give your career in science the forensic attention it deserves

If you're interested in pursuing a career as a forensic laboratory scientist, then this is the degree for you. At UC, we focus on the laboratory-based areas of forensic biology and forensic chemistry. You'll undertake subjects which arm you with the necessary specialisations and complement the broader laboratory science/human science aspects of the degree. The Forensic Studies program is part of the National Centre for Forensic Studies (NCFS) – a collaboration between UC, the Canberra Institute of Technology and the Australian Federal Police (AFP). Over the course of your studies, you'll benefit from the opportunities this unique partnership brings, including access to specialist equipment and the latest technologies in forensic analysis.

You'll gain advantages thanks to UC's formalised partnerships with major research institutions and forensic providers, such as the AFP and NSW Health groups. UC also collaborates with a number of overseas universities and institutions, including the University of Florida and the University of Santiago de Compostela in Spain. As a UC-qualified Australian practitioner, you'll graduate with an outstanding reputation, excellent job prospects and the full suite of knowledge and skills you'll need for a career in forensics.

**Study a Bachelor of Applied Science in Forensic Studies at UC and you will:**

- learn analytical techniques to examine evidence
- collect and examine trace evidence
- master environmental forensic science
- investigate forensic toxicology
- understand forensic statistics
- specialise in chemical and biological analysis
- work collaboratively on forensic case studies
- interpret and report on analytical results.

## Work Integrated Learning

The structure of this course is informed by industry, meaning Work Integrated Learning (WIL) is present at its core. As part of your WIL, you'll undertake a range of practical activities designed to prepare you for a sustainable career in forensics through real work or work-like experiences, and potential work placements. Previous students have undertaken internships in a variety of professional settings, including the AFP, ACT Health, government regulatory departments, pathology laboratories, pharmacies, biotech start-ups, and firms within the university sector.

You'll also have the opportunity to take part in collaborative work where you'll team up with research-active academics to develop a research project and report on its outcomes at either UC's National Centre for Forensic Studies, Centre for Research in Therapeutic Solutions, Institute of Applied Ecology, or another approved professional institution.

If you'd like to study overseas, summer or winter term internships to a host of international destinations can be applied for, which can count as credit towards your degree.

## Career opportunities

- Analytical chemist
- Member of Australian Federal Police
- DNA analyst
- Educator
- Formulation chemist
- Forensic toxicologist
- Government health department officer
- Laboratory scientist
- Policy officer
- Public health officer
- Quality assurance officer

## Course-specific information

To apply for this course, you must have prior knowledge in the following areas:

- ACT: Biology and/or Chemistry major(s), plus Mathematical Methods
- NSW: Biology and/or Chemistry, plus Mathematics
- VIC: VCE Units 3 and 4 Biology and/or Chemistry, plus VCE Units 3 and 4 Mathematical Methods.

High-achieving students may be eligible to enrol in the Bachelor of Applied Science (Honours) course.

Successful completion of this course, when linked with further postgraduate study such as a master's degree or PhD, could see you qualify as a research scientist in your chosen field.

# Admission requirements

Admission to this course is based on an entrance rank. A rank can be achieved by the following means:

- Year 12 ATAR
- other Australian Qualification
- work experience
- overseas qualification

We also offer a number of entry initiatives that give you the opportunity to gain entry to the University via alternate pathway programs and admissions schemes.

More information is available on our Alternative Entry page: <http://www.canberra.edu.au/future-students/applications/apply-now/alternative-entry>

## Assumed knowledge

ACT: Biology and/or Chemistry major(s), plus Mathematical Methods major. NSW: Biology and/or Chemistry, plus Mathematics.

## 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](#).

# Course requirements

## Bachelor of Applied Science in Forensic Studies (142JA) | 72 credit points

**Required - 63 credit points as follows**

[Expand All](#) | [Collapse All](#)

**Minor in Forensic Science (MN0150) | 12 credit points**

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

[Communication in Science \(4732\) | 3 credit points — Level 1](#)

[Foundations of Professional Planning \(9799\) | 3 credit points — Level 1](#)

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

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

Forensic Science 1 (8778) | 3 credit points — Level 1

Forensic Science 2 (8779) | 3 credit points — Level 2

## **Major in Forensic Biology (MJ0043) | 21 or 24 credit points**

### **For the 21cp Major - Must pass 21 credit points from the following**

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

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

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

Biochemistry (6530) | 3 credit points — Level 2

Forensic Biology (8379) | 3 credit points — Level 3

Biosecurity and Microbial Forensics (8665) | 3 credit points — Level 3

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

Environmental and Forensic Genetics (10001) | 3 credit points — Level 3

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

### **For the 24cp Major - 24 credit points as follows**

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

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

#### **Restricted Choice - Must pass 21 credit points from the following**

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

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

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

Biochemistry (6530) | 3 credit points — Level 2

Forensic Biology (8379) | 3 credit points — Level 3

Biosecurity and Microbial Forensics (8665) | 3 credit points — Level 3

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

Environmental and Forensic Genetics (10001) | 3 credit points — Level 3

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

Note:

- 21 credit points major is restricted to students enrolled in double degrees.

## **Major in Forensic Chemistry (MJ0042) | 21 credit points**

### **Required - Must pass 18 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

Introduction to Pharmacology and Toxicology (8342) | 3 credit points — Level 3

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

Forensic Toxicology and Drug Analysis (8780) | 3 credit points — Level 3

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

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

Environmental and Forensic Geochemistry (10002) | 3 credit points — Level 3

Note:

- From 2019, unit 8375 has replaced unit 10002 in this major. Students who are required to undertake 8375 elsewhere in their course should select an open elective unit instead.

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

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

Introductory Physics (10000) | 3 credit points — Level 1

### **Restricted Choice - 6 credit points from the following**

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

Forensic Statistics (7904) | 3 credit points — Level 2

Biostatistics (10222) | 3 credit points — Level 2

- 10222 Biostatistics replaces 7904 Forensic Statistics from 2018. Students who have previously completed 7904 may still count it towards course completion.

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

Professional Practice in Applied Science (8783) | 3 credit points — Level 3

Research Project in Applied Science (9632) | 3 credit points — Level 3

Industry and Community Engagement (Health) (10120) | 3 credit points — Level 3

## Open Electives - 3 credit points as follows

- Unit Levels: In choosing electives students should note that not more than 30 credit points at Level 1 is permitted for the entire course.

Note:

- Must pass 3 credit points from anywhere in the University.

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

# Typical study pattern

UC - Canberra, Bruce

Standard Full Time, Semester 1 Commencing

### Year 1

#### Semester 1

MN0150 Restricted Choice Unit

[Chemistry 1a \(1516\)](#)

[Concepts in Biology \(483\)](#)

[Mathematical Methods \(577\)](#)

#### Semester 2

[Chemistry 1b \(1517\)](#)

[Data Analysis in Science \(1809\)](#)

[Forensic Science 1 \(8778\)](#)

[Introductory Physics \(10000\)](#)

### Year 2

#### Semester 1

[Biochemistry \(6530\)](#)

[Biostatistics \(10222\)](#)

[Forensic Science 2 \(8779\)](#)

[Genetics and Genomics \(10223\)](#)

#### Semester 2

Analytical Chemistry (8043)

Human Biochemistry (6518)

Introduction to Microbiology (6510)

Molecular and Cellular Biology (8375)

### **Year 3**

#### **Semester 1**

Environmental and Forensic Geochemistry (10002)

Open Elective Unit

Environmental and Forensic Genetics (10001)

Introduction to Pharmacology and Toxicology (8342)

#### **Semester 2**

Biosecurity and Microbial Forensics (8665)

Forensic Chemistry (8376)

Forensic Toxicology and Drug Analysis (8780)

## Standard Part Time, Semester 2 Commencing

### **Year 1**

#### **Semester 2**

Data Analysis in Science (1809)

Forensic Science 1 (8778)

Introductory Physics (10000)

### **Year 2**

#### **Semester 1**

Chemistry 1a (1516)

Communication in Science (4732)

Concepts in Biology (483)

Mathematical Methods (577)

#### **Semester 2**

Chemistry 1b (1517)

Open Elective Unit



[Introduction to Microbiology \(6510\)](#)

### Year 3

#### Semester 1

[Biochemistry \(6530\)](#)

[Biostatistics \(10222\)](#)

[Forensic Science 2 \(8779\)](#)

[Genetics and Genomics \(10223\)](#)

#### Semester 2

[Analytical Chemistry \(8043\)](#)

[Human Biochemistry \(6518\)](#)

[Molecular and Cellular Biology \(8375\)](#)

### Year 4

#### Semester 1

[Biosecurity and Microbial Forensics \(8665\)](#)

[Environmental and Forensic Genetics \(10001\)](#)

[Environmental and Forensic Geochemistry \(10002\)](#)

[Introduction to Pharmacology and Toxicology \(8342\)](#)

#### Semester 2

[Forensic Chemistry \(8376\)](#)

[Forensic Toxicology and Drug Analysis \(8780\)](#)

# Course information

## Course duration

Standard 3 years full time or part-time equivalent. Maximum 10 years from date of enrolment to date of course completion.

## Learning outcomes

Learning outcomes	Related graduate attributes
Graduates will be able to apply knowledge and skills to demonstrate autonomy, well-developed judgement of	1. UC graduates are professional. Because we collaborate closely with

<p>knowledge and responsibility:</p> <ul style="list-style-type: none"> <li>- for problem solving and decision making in professional practice;</li> <li>- in contexts that are unfamiliar and require self-directed work and learning;</li> <li>- to provide specialist scientific advice with respect to legal matters</li> </ul>	<p>industry and other stakeholders, our graduates have the knowledge, skills and attitudes to succeed in their profession and become leaders in their field. UC graduates can:</p> <ul style="list-style-type: none"> <li>- use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems;</li> <li>- display initiative and drive, and use their organisation skills to plan and manage their workload;</li> <li>- take pride in their professional and personal integrity</li> </ul> <p>2. UC graduates are global citizens. We support students to gain the knowledge and confidence to be global citizens. UC graduates can:</p> <ul style="list-style-type: none"> <li>- think globally about issues in their profession;</li> <li>- adopt an informed and balanced approach across professional and international boundaries;</li> <li>- understand issues in their profession from the perspective of other cultures;</li> <li>- communicate effectively in diverse cultural and social settings;</li> </ul> <p>3. UC graduates are lifelong learners. Our graduates are passionate about being at the forefront of their profession, staying in touch with the latest research, news and technology. UC graduates can:</p> <ul style="list-style-type: none"> <li>- adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas;</li> <li>- evaluate and adopt new technology.</li> </ul>
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Graduates will be able to demonstrate a broad and coherent theoretical and technical knowledge with depth in forensic science or the application of science to legal matters.

1. UC graduates are professional. Because we collaborate closely with industry and other stakeholders, our graduates have the knowledge, skills and attitudes to succeed in their profession and become leaders in their field. UC graduates can:

- employ up-to-date and relevant knowledge and skills.

2. UC graduates are global citizens. We support students to gain the

knowledge and confidence to be global citizens. UC graduates can:

- think globally about issues in their profession;
- adopt an informed and balanced approach across professional and international boundaries;
- understand issues in their profession from the perspective of other cultures.

3. UC graduates are lifelong learners. Our graduates are passionate about being at the forefront of their profession, staying in touch with the latest research, news and technology. UC graduates can:

- reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development;
- be self-aware;
- adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas;
- evaluate and adopt new technology.

Graduates will have well-developed cognitive, technical and communication skills to select and apply methods and technologies to:

- analyse and evaluate information to complete a range of activities in the field of forensic science;
- analyse, generate and transmit scientific solutions to unpredictable and sometimes complex legal problems;
- transmit knowledge, skills and ideas to those involved in the legal system including judges and juries

1. UC graduates are professional. Because we collaborate closely with industry and other stakeholders, our graduates have the knowledge, skills and attitudes to succeed in their profession and become leaders in their field. UC graduates can:

- employ up-to-date and relevant knowledge and skills;
- communicate effectively;
- use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems;
- work collaboratively as part of a team, negotiate, and resolve conflict

2. UC graduates are global citizens. We support students to gain the knowledge and confidence to be global citizens. UC graduates can:

- think globally about issues in their profession;

	<ul style="list-style-type: none"> <li>- adopt an informed and balanced approach across professional and international boundaries;</li> <li>- communicate effectively in diverse cultural and social settings;</li> <li>- make creative use of technology in their learning and professional lives;</li> <li>- behave ethically and sustainably in their professional and personal lives.</li> </ul> <p>3. UC graduates are lifelong learners. Our graduates are passionate about being at the forefront of their profession, staying in touch with the latest research, news and technology. UC graduates can:</p> <ul style="list-style-type: none"> <li>- reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development;</li> <li>- be self-aware;</li> <li>- adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas;</li> <li>- evaluate and adopt new technology.</li> </ul>
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## Majors

- [Major in Forensic Biology \(MJ0043\)](#)
- [Minor in Forensic Science \(MN0150\)](#)
- [Major in Forensic Chemistry \(MJ0042\)](#)

## Awards

Award	Official abbreviation
Bachelor of Applied Science in Forensic Studies	BAppSc ForSc

## Honours

Higher performing students, on completion of this course, will have the opportunity to undertake an Honours year.

## Enquiries

Student category	Contact details
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
Prospective International Students	Email <a href="mailto:international@canberra.edu.au">international@canberra.edu.au</a> or Phone +61 2 6201 5342
Prospective Students	Email <a href="mailto:study@canberra.edu.au">study@canberra.edu.au</a> or Phone 1800 UNI CAN (1800 864 226)

## Download your course guide



# Scholarships

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## Explore Scholarships

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CRICOS 00212K

TEQSA Provider ID: PRV12003 (Australian University)

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.