



Bachelor of Science (392AB.2)

Please note these are the 2021 details for this course

Domestic students

Selection rank 60

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.

English language requirements

An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent).

[View IELTS equivalences](#)

Duration 3.0 years

UAC code 368103

Faculty Faculty of Science and Technology

Discipline Academic Program Area - Science

Location UC - Canberra, Bruce

Fees 2021: Commonwealth Supported Place
2022: Commonwealth Supported Place

Disclaimer:

Annual fee rates

The fees shown are the annual fee rates for the course. The annual rate is the fee that applies to standard full-time enrolment, which is 24 credit points. The final fee charged is based on the proportion of 24 credit points in which a student enrolls. Students enrolled in a Commonwealth Support Place (CSP) are required to make a contribution towards the cost of their education, which is set by the Commonwealth Government. Information on Commonwealth Supported Places, HECS-HELP and how fees are calculated can be found [here](#).

International students

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](#)

English language requirements

An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent).

[View IELTS equivalences](#)

CRICOS code

025533J

Faculty

Faculty of Science and Technology

Discipline

Academic Program Area - Science

Location

UC - Canberra, Bruce

Duration

3.0 years

Fees

2021: \$31,900 per year

2022: \$32,600 per year

Disclaimer:

Annual fee rates

The fees shown are the annual fee rates for the course. The annual rate is the fee that applies to standard full-time enrolment, which is 24 credit points. The final fee charged is based on the proportion of 24 credit points in which a student enrolls. Information on how fees are calculated can be found [here](#).

About this course

Be in your element with a science degree from UC

If the field of science is where you see your future career, then this course is a great introduction to the professional scientific arena. You'll acquire a broad science education, while having the flexibility to design a tailored program of study using majors and minors from both science and non-science disciplines to meet your individual study and employment goals.

The course presents substantial Work Integrated Learning (WIL) opportunities, such as unique field trips, and local and overseas work placements, meaning you'll graduate with a host of practical, work-ready skills. By the completion of your studies, you'll have developed a significant understanding of how a laboratory works and will be ready to impress in the world of science. Or if you choose to progress to further study, the flexible pathways of this degree can enable entry into other science programs... and the whole range of exciting scientific career aspirations this gives access to.

Study a Bachelor of Science at UC and you will:

- acquire a solid understanding of your chosen field
- become an independent thinker and improve your complex reasoning skills to develop logical and substantiated arguments
- communicate simple and complex science concepts effectively
- develop a flexible grounding in many areas of applied professional or research employment in science.

Work Integrated Learning

WIL is a central part of this course and you'll undertake a range of practical activities designed to prepare you for a sustainable career in medical science, such as exposure to entrepreneurship in science and pitching ideas for funding and patenting, guest lectures by esteemed industry professionals and work placements in an area of science of particular interest to you.

Previous students have undertaken internships with pathology laboratories, federal and ACT government regulatory departments, pharmacies, biotech start-ups, technical support laboratories, companies within the university sector, and bodies including the Office of the Gene Technology Regulator (OGTR), Therapeutic Goods Administration, ACT Health and Allied Health Research. Previous students have undertaken internships with companies including the CSIRO, Department of Agriculture, National Museum of Australia and Qwestacon.

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 Centre for Research in Therapeutic Solutions, Institute of Applied Ecology, National Centre for Forensic Studies, or another approved professional institution.

If you'd like to study overseas, summer or winter term internships to Malaysia, Singapore or Thailand can be applied for, as well as a number of targeted faculty-led programs.

Career opportunities

- Laboratory technician
- Research scientist
- Research officer
- Science educator
- Science communicator
- Technical officer
- Government science policy developer

Course-specific information

You may wish to combine your degree with another bachelor's degree to form a four-year double degree and strengthen your employment opportunities. For your range of options, contact UC and we can help you find the right combination for your future career.

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

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: English (T) major and advanced mathematics; NSW: English Advanced and Mathematics. Students must also have studied at least one of biology, chemistry or physics at (T) major level (ACT) or level Science (NSW).

Periods course is open for new admissions

Year	Location	Teaching period	Teaching start date	Domestic	International
2021	UC - Canberra, Bruce	Semester 1	08 February 2021	✓	✓
2021	UC - Canberra, Bruce	Winter Term	01 June 2021	✓	
2021	UC - Canberra, Bruce	Semester 2	02 August 2021	✓	✓

Credit arrangements

A credit transfer arrangement is available for this course for the following institutions:

University Of Canberra College

[Diploma of Science \(16873\)](#)

Course requirements

Bachelor of Science (392AB) | 72 credit points

Restricted Choice - 48 credit points as follows

Part A - Must select 2 of the following

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 Human Nutrition (MJ0051) | 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

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

Nutrition Across the Lifecycle (8253) | 3 credit points – Level 3

Nutrition and Disease (8255) | 3 credit points – Level 3

Nutritional Science (8257) | 3 credit points – Level 2

Introductory Nutrition (9280) | 3 credit points – Level 1

Restricted Choice - Must pass 3 credit points from the following

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

Introduction to Food Science (9279) | 3 credit points – Level 1

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

Required - Must pass 15 credit points as follows

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

Nutrition Across the Lifecycle (8253) | 3 credit points – Level 3

Nutrition and Disease (8255) | 3 credit points – Level 3

Nutritional Science (8257) | 3 credit points – Level 2

Introductory Nutrition (9280) | 3 credit points – Level 1

Restricted Choice - 6 credit points as follows

Part A - Must pass 3 credit points from the following

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

Introduction to Food Science (9279) | 3 credit points – Level 1

Part B - Must pass 3 credit points from the following

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

Sports Nutrition (8721) | 3 credit points – Level 3

International Nutrition (9278) | 3 credit points – Level 3

Introduction to Food Science (9279) | 3 credit points – Level 1

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

Required - Must pass 15 credit points as follows

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

Nutrition Across the Lifecycle (8253) | 3 credit points – Level 3

Nutrition and Disease (8255) | 3 credit points – Level 3

Nutritional Science (8257) | 3 credit points – Level 2

Introductory Nutrition (9280) | 3 credit points – Level 1

Restricted Choice - 9 credit points as follows

Part A - Must pass 3 credit points from the following

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

Introduction to Food Science (9279) | 3 credit points – Level 1

Part B - Must pass 3 credit points from the following

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

Sports Nutrition (8721) | 3 credit points – Level 3

International Nutrition (9278) | 3 credit points – Level 3

Introduction to Food Science (9279) | 3 credit points – Level 1

Part C - Must pass 3 credit points from the following

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

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

Food Science (8251) | 3 credit points – Level 2

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

Sports Nutrition (8721) | 3 credit points – Level 3

International Nutrition (9278) | 3 credit points – Level 3

Note:

- Students choosing to undertake the 24 credit point Major must be enrolled in the Human Nutrition degree course or have permission from the Convener of the Major.

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

Major in Applied Statistics (MJ0007) | 18 credit points

Required - Must pass 3 credit points as follows

Introduction to Statistics (6540) | 3 credit points – Level 1

Restricted Choice - Must pass 15 credit points from the following

Econometrics (6541) | 3 credit points – Level 3

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

Multivariate Statistics (6544) | 3 credit points – Level 3

Nonparametric Statistics (6545) | 3 credit points – Level 3

Regression Modelling (6546) | 3 credit points – Level 3

Survey Design and Analysis (6547) | 3 credit points – Level 3

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

Biostatistics (10222) | 3 credit points – Level 2

Econometrics (11227) | 3 credit points – Level 2

Major in Psychological Science (MJ0102) | 24 credit points

Required - Must pass 21 credit points as follows

Psychology 102 (4310) | 3 credit points – Level 1

Experimental Psychology (7118) | 3 credit points – Level 2

Personality and Individual Differences (7122) | 3 credit points – Level 2

Cognitive Psychology (7123) | 3 credit points – Level 3

Social Psychology (7125) | 3 credit points – Level 3

Survey Research and Design in Psychology (7126) | 3 credit points – Level 3

Psychopathology (7128) | 3 credit points – Level 3

Restricted Choice - Must pass 3 credit points from the following

Psychology 101 (4309) | 3 credit points – Level 1

Understanding People and Behaviour (11399) | 3 credit points – Level 1

Note:

- From Semester 1 2019 11399 Understanding People and Behaviour replaces 4309 Psychology 101. Students who have passed 4309 do not need to complete the new unit.

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

Major in Sports Science (MJ0115) | 21 credit points

Required - Must pass 15 credit points as follows

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

Biomechanics 1 (6834) | 3 credit points – Level 2

Biomechanics 2 (6835) | 3 credit points – Level 3

Physiology of Exercise 1 (8391) | 3 credit points – Level 2

Physiology of Exercise 2 (8392) | 3 credit points – Level 3

Restricted Choice - 6 credit points as follows

Part A - Must pass 3 credit points from the following

Motor Control (6833) | 3 credit points – Level 2

Motor Control and Skill Acquisition (8913) | 3 credit points – Level 2

Part B - Must pass 3 credit points from the following

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

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 Water Science (MJ0124) | 18 credit points

Required - Must pass 15 credit points as follows

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

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

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

Ecochemistry (6915) | 3 credit points – Level 2

Australian Landscapes, Regolith and Soils (8781) | 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

Restricted Choice - Must pass 3 credit points from the following

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

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

Resource Science Project (6921) | 3 credit points – Level 3

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

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.

Major in Genetics (MJ0046) | 18 credit points

Required - Must pass 6 credit points as follows

- Chemistry 1a (1516) | 3 credit points – Level 1
- Biochemistry (6530) | 3 credit points – Level 2

Restricted Choice - 12 credit points as follows

Part A - Must pass 3 credit points from the following

- Plants and Animals (623) | 3 credit points – Level 1
- Chemistry 1b (1517) | 3 credit points – Level 1

Part B - Must pass 3 credit points from the following

- Molecular Biology (6516) | 3 credit points – Level 2
- Molecular and Cellular Biology (8375) | 3 credit points – Level 2

Part C - Must pass 3 credit points from the following

- Conservation Biology and Genetics (6914) | 3 credit points – Level 3
- Conservation Genetics (8504) | 3 credit points – Level 2

Part D - 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 Network Engineering (MJ0262) | 18 credit points

Required - Must pass 18 credit points as follows

- Software Technology 1 (4483) | 3 credit points – Level 1
- Computer and Network Security (8019) | 3 credit points – Level 3
- Wireless Networks (8227) | 3 credit points – Level 2
- Introduction to Network Engineering (8741) | 3 credit points – Level 2
- Network Architecture (9428) | 3 credit points – Level 4
- Technology and Engineering Management (9789) | 3 credit points – Level 3

Note:

- From 2019 the unit code for 8741 Introduction to Network Engineering has changed to 11485 and for 9428 Network Architecture to 11484.

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
- Genetics (6531) | 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
- Genetics (6531) | 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.

Major in Software Engineering (MJ0109) | 18 credit points

Required - Must pass 12 credit points as follows

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

Software Engineering Practice (7169) | 3 credit points – Level 3

System Software (7171) | 3 credit points – Level 2

Technology and Engineering Management (9789) | 3 credit points – Level 3

Part A - Must pass 3 credit points from the following

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

Web Design and Programming (7175) | 3 credit points – Level 2

Mobile Technologies (8878) | 3 credit points – Level 2

Note:

- For students in Bachelor of Software Engineering (560AA), this restricted choice is 7170 Software Technology 2; for students in other courses, any unit of the three listed.

Part B - Must pass 3 credit points from the following

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

Introduction to Software Engineering (5531) | 3 credit points – Level 1

Note:

- From 2019 the unit code for System Software has changed to 11489 and for Mobile Technologies to 11492.

Major in Pre-Physiotherapy (MJ0095) | 24 credit points

Required - Must pass 18 credit points as follows

Psychology 101 (4309) | 3 credit points – Level 1

Biomechanics 1 (6834) | 3 credit points – Level 2

Advanced Functional Anatomy (8279) | 3 credit points – Level 3

Physiology of Exercise 1 (8391) | 3 credit points – Level 2

Physiology of Exercise 2 (8392) | 3 credit points – Level 3

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

Restricted Choice - 6 credit points as follows

Part A - Must pass 3 credit points from the following

Biomechanics 2 (6835) | 3 credit points – Level 3

Sport and Performance Psychology (7224) | 3 credit points – Level 2

Part B - Must pass 3 credit points from the following

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

Motor Control and Skill Acquisition (8913) | 3 credit points – Level 2

Major in Applied Ecology (MJ0008) | 18 credit points

Required - Must pass 18 credit points as follows

- Plants and Animals (623) | 3 credit points – Level 1
- Integrated Catchment Science (10224) | 3 credit points – Level 2
- Landscape Processes (10225) | 3 credit points – Level 2
- Freshwater Biology (10226) | 3 credit points – Level 2
- Ecology (10231) | 3 credit points – Level 2
- Conservation Ecology (10234) | 3 credit points – Level 3

Specialist Major in Data Science (SM0057) | 24 credit points

Required - Must pass 15 credit points as follows

- Introduction to Statistics (6540) | 3 credit points – Level 1
- Data Analytics and Business Intelligence (8696) | 3 credit points – Level 3
- Introduction to Data Science (11372) | 3 credit points – Level 3
- Exploratory Data Analysis and Visualisation (11374) | 3 credit points – Level 3
- Pattern Recognition and Machine Learning (11482) | 3 credit points – Level 3

Restricted Choice - Must pass 9 credit points from the following

- Information Sciences Internship (7899) | 3 credit points – Level 3
- Information Sciences Internship (Extended) (10152) | 3 credit points – Level 3
- AR/VR for Data Analysis and Communication (11464) | 3 credit points – Level 3
- Advances in Information Sciences and Engineering (11480) | 3 credit points – Level 3

Note:

- Restricted Choice units should be chosen to either meet the prerequisites of the units in the Major or to complement Major units for a better learning outcome.

- MJ0042 Major in Forensic Chemistry has new unit requirements from 2016. Students commencing from 2016 onwards should undertake version 3 of this major.

Part B - Must select 1 of the following

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 Applied Statistics (MN0005) | 12 credit points

Required - Must pass 3 credit points as follows

- Introduction to Statistics (6540) | 3 credit points – Level 1

Restricted Choice - Must pass 9 credit points from the following

- Econometrics (6541) | 3 credit points – Level 3
- Experiment Design and Analysis (6542) | 3 credit points – Level 3
- Multivariate Statistics (6544) | 3 credit points – Level 3
- Nonparametric Statistics (6545) | 3 credit points – Level 3
- Regression Modelling (6546) | 3 credit points – Level 3
- Survey Design and Analysis (6547) | 3 credit points – Level 3
- Forensic Statistics (7904) | 3 credit points – Level 2
- Biostatistics (10222) | 3 credit points – Level 2
- Econometrics (11227) | 3 credit points – Level 2

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 Mathematics (MN0071) | 12 credit points

Required - Must pass 6 credit points as follows

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

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

Restricted Choice - Must pass 6 credit points from the following

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

Exercise Interventions 2 PG (8013) | 3 credit points – Level P

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

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

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 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

Minor in Forensic Biology (MN0152) | 12 credit points

Required - Must pass 12 credit points as follows

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

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

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

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

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.

Minor in Psychology: An Introduction (MN0118) | 12 credit points

Required - Must pass 6 credit points as follows

Psychology 101 (4309) | 3 credit points – Level 1

Psychology 102 (4310) | 3 credit points – Level 1

Restricted Choice - Must pass 6 credit points from the following

Physiological Psychology (7120) | 3 credit points – Level 2
Developmental Psychology (7121) | 3 credit points – Level 2
Personality and Individual Differences (7122) | 3 credit points – Level 2
Cognitive Psychology (7123) | 3 credit points – Level 3
Motivation and Emotion (7124) | 3 credit points – Level 3
Social Psychology (7125) | 3 credit points – Level 3
Learning (7127) | 3 credit points – Level 2
Psychopathology (7128) | 3 credit points – Level 3

Minor in Earth Science (MN0136) | 12 credit points

Required - Must pass 3 credit points as follows

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

Restricted Choice - Must pass 9 credit points from the following

Chemistry 1a (1516) | 3 credit points – Level 1
Applied Geochemistry (8100) | 3 credit points – Level 3
Earth Surface Processes (8538) | 3 credit points – Level 1
Australian Landscapes, Regolith and Soils (8781) | 3 credit points – Level 2
Environmental and Forensic Geochemistry (10002) | 3 credit points – Level 3

Minor in Forensic Chemistry (MN0154) | 12 credit points

Required - Must pass 12 credit points as follows

Analytical Chemistry (8043) | 3 credit points – Level 2
Forensic Chemistry (8376) | 3 credit points – Level 3
Forensic Science 1 (8778) | 3 credit points – Level 1
Forensic Science 2 (8779) | 3 credit points – Level 2

Minor in Forensic Toxicology (MN0155) | 12 credit points

Required - Must pass 12 credit points as follows

Introduction to Pharmacology and Toxicology (8342) | 3 credit points – Level 3
Forensic Science 1 (8778) | 3 credit points – Level 1
Forensic Science 2 (8779) | 3 credit points – Level 2
Forensic Toxicology and Drug Analysis (8780) | 3 credit points – Level 3

Minor in Environmental Forensic Science (MN0151) | 12 credit points

Required - Must pass 12 credit points as follows

Analytical Chemistry (8043) | 3 credit points – Level 2
Environmental Forensic Science (8248) | 3 credit points – Level 3
Forensic Science 1 (8778) | 3 credit points – Level 1
Forensic Science 2 (8779) | 3 credit points – Level 2

Minor in Human Nutrition (MN0043) | 12 credit points

Required - Must pass 12 credit points as follows

Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1
Nutritional Science (8257) | 3 credit points – Level 2
Nutrition, Society and Health (8259) | 3 credit points – Level 3

Introductory Nutrition (9280) | 3 credit points – Level 1

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

Minor in Forensic Science (MN0150) | 12 credit points

Required - Must pass 6 credit points as follows

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

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

Restricted Choice - Must pass 6 credit points from the following

Law and Society (6599) | 3 credit points – Level 1

Legal Systems (6602) | 3 credit points – Level 1

Criminal Law and Procedure (7025) | 3 credit points – Level 3

Cybercrime (7026) | 3 credit points – Level 2

Evidence Law (7030) | 3 credit points – Level 3

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

Mental Health and the Law (8055) | 3 credit points – Level 2

Forensic Evidence and the Law (8064) | 3 credit points – Level 3

Introduction to Forensic Psychology (8831) | 3 credit points – Level 2

Minor in Forensic Biosecurity (MN0153) | 12 credit points

Required - Must pass 12 credit points as follows

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

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

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

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

- MN0031 Minor in Environmental Assessment is closed and not available to students commencing from 2015 onwards.

- The availability of Majors and Minors is subject to change and students are advised to check with the Course Convener for the latest update.

Suspended Majors - May select from

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

Major in Genetic Counselling (MJ0045) | 24 credit points

Required - Must pass 6 credit points as follows

Physiological Psychology (7120) | 3 credit points – Level 2

Personality and Individual Differences (7122) | 3 credit points – Level 2

Restricted Choice - 18 credit points as follows

Part A - Must pass 3 credit points from the following

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

Psychology 101 (4309) | 3 credit points – Level 1

Part B - Must pass 3 credit points from the following

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

Psychology 102 (4310) | 3 credit points – Level 1

Part C - Must pass 3 credit points from the following

Biochemistry (6530) | 3 credit points – Level 2

Developmental Psychology (7121) | 3 credit points – Level 2

Part D - Must pass 3 credit points from the following

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

Genetics (6531) | 3 credit points – Level 2

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

Part E - Must pass 3 credit points from the following

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

Motivation and Emotion (7124) | 3 credit points – Level 3

Part F - Must pass 3 credit points from the following

Molecular Biology (6516) | 3 credit points – Level 2

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

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 Biological Chemistry (MJ0013) | 24 credit points

Required - Must pass 21 credit points as follows

Chemistry 1a (1516) | 3 credit points – Level 1
Chemistry 1b (1517) | 3 credit points – Level 1
Immunology (6512) | 3 credit points – Level 3
Integrated Studies of Disease (6517) | 3 credit points – Level 3
Human Biochemistry (6518) | 3 credit points – Level 2
Biochemistry (6530) | 3 credit points – Level 2
Analytical Chemistry (8043) | 3 credit points – Level 2

Restricted Choice - Must pass 3 credit points from the following

Molecular Biology (6516) | 3 credit points – Level 2

Genetics (6531) | 3 credit points – Level 2

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

Major in Forensic Chemistry (MJ0042) | 21 or 24 credit points

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

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

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

Data Analysis in Science (1809) | 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

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

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

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

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

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

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

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

Major in Sustainability (MJ0155) | 18 credit points

Restricted Choice - 6 credit points as follows

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

Concepts of Human Learning & Development (5011) | 3 credit points – Level 1

Environmental and Resource Economics (6405) | 3 credit points – Level 3

Introduction to Tourism (6588) | 3 credit points – Level 1

Global Issues in Tourism (6590) | 3 credit points – Level 1

Introductory Sociology (6607) | 3 credit points – Level 1

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

Indigenous Australia: Contemporary Issues (6878) | 3 credit points – Level 2

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

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

Design Environment (6940) | 3 credit points – Level 2

Introduction to Public Policy (7074) | 3 credit points – Level 3

Sociology of Technology and Work (7087) | 3 credit points – Level 2

Global Challenges in Governance (7533) | 3 credit points – Level 2

Tourism Policy (8053) | 3 credit points – Level 3

Globalisation and Resistance (8169) | 3 credit points – Level 1

Landscape Systems (8273) | 3 credit points – Level 3

Introduction to Politics and Government (8296) | 3 credit points – Level 1

Australia's Changing Climate (8725) | 3 credit points – Level 2

Global Tourism Issues (8729) | 3 credit points – Level 2

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

Public Policy in Theory and Practice (8785) | 3 credit points – Level 3

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

Introduction to Events and Tourism (9470) | 3 credit points – Level 1

Part B - May do up to 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

Required - Must pass 12 credit points as follows

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

Governance for Environmental Sustainability (7778) | 3 credit points – Level 2

Environmental and Planning Law (7907) | 3 credit points – Level 2

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

Major in Psychology: An Introduction (MJ0068) | 18 or 21 or 24 credit points

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

Required - Must pass 6 credit points as follows

Psychology 101 (4309) | 3 credit points – Level 1

Psychology 102 (4310) | 3 credit points – Level 1

Restricted Choice - Must pass 12 credit points from the following

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

Physiological Psychology (7120) | 3 credit points – Level 2

Developmental Psychology (7121) | 3 credit points – Level 2

Personality and Individual Differences (7122) | 3 credit points – Level 2

Part B - Must do at least 6 credit points from the following

Cognitive Psychology (7123) | 3 credit points – Level 3

Motivation and Emotion (7124) | 3 credit points – Level 3

Social Psychology (7125) | 3 credit points – Level 3

Learning (7127) | 3 credit points – Level 2

Psychopathology (7128) | 3 credit points – Level 3

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

Required - Must pass 6 credit points as follows

Psychology 101 (4309) | 3 credit points – Level 1

Psychology 102 (4310) | 3 credit points – Level 1

Restricted Choice - Must pass 15 credit points from the following

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

Physiological Psychology (7120) | 3 credit points – Level 2

Developmental Psychology (7121) | 3 credit points – Level 2

Personality and Individual Differences (7122) | 3 credit points – Level 2

Part B - Must do at least 9 credit points from the following

Cognitive Psychology (7123) | 3 credit points – Level 3

Motivation and Emotion (7124) | 3 credit points – Level 3

Social Psychology (7125) | 3 credit points – Level 3

Learning (7127) | 3 credit points – Level 2

Psychopathology (7128) | 3 credit points – Level 3

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

Required - Must pass 6 credit points as follows

Psychology 101 (4309) | 3 credit points – Level 1

Psychology 102 (4310) | 3 credit points – Level 1

Restricted Choice - Must pass 18 credit points from the following

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

Physiological Psychology (7120) | 3 credit points – Level 2

Developmental Psychology (7121) | 3 credit points – Level 2

Personality and Individual Differences (7122) | 3 credit points – Level 2

Part B - Must do at least 12 credit points from the following

Cognitive Psychology (7123) | 3 credit points – Level 3

Motivation and Emotion (7124) | 3 credit points – Level 3

Social Psychology (7125) | 3 credit points – Level 3

Learning (7127) | 3 credit points – Level 2

Psychopathology (7128) | 3 credit points – Level 3

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.

Major in Analytical Chemistry (MJ0178) | 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

Ecochemistry (6915) | 3 credit points – Level 2

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

Restricted Choice - 6 credit points as follows

Part A - Must pass 3 credit points from the following

Biochemistry (6530) | 3 credit points – Level 2

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

Part B - Must pass 3 credit points from the following

Research Project in Applied Science (3) (3238) | 3 credit points – Level 3

Toxicology (6926) | 3 credit points – Level 3

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

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

Note:

- 9632 Research Project in Applied Science has replaced 3238. Students who have previously completed 3238 may still count it towards course completion.

Major in Ecological Conservation (MJ0036) | 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

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.

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

Major in Environmental Chemistry (MJ0179) | 18 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

Ecochemistry (6915) | 3 credit points – Level 2

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

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

Freshwater Biology (10226) | 3 credit points – Level 2

Major in Environmental Genetics (MJ0194) | 18 credit points

Required - Must pass 15 credit points as follows

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

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

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

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

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

Restricted Choice - Must pass 3 credit points from the following

Biochemistry (6530) | 3 credit points – Level 2

Biostatistics (10222) | 3 credit points – Level 2

Major in Earth Science (21cp) (MJ0301) | 21 credit points

Required - Must pass 21 credit points as follows

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

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

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

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

Integrated Catchment Science (10224) | 3 credit points – Level 2

Landscape Processes (10225) | 3 credit points – Level 2

Spatial Analysis (10230) | 3 credit points – Level 3

Major in Sustainable Landscapes (MJ0300) | 18 credit points

Required - Must pass 15 credit points as follows

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

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

Landscape Systems (8273) | 3 credit points – Level 3

Integrated Catchment Science (10224) | 3 credit points – Level 2

Landscape Processes (10225) | 3 credit points – Level 2

Restricted Choice - Must pass 3 credit points from the following

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

Spatial Analysis (10230) | 3 credit points – Level 3

- MJ0036 Ecological Conservation & MJ0039 Environmental Assessment are closed to students who commenced in 2015 or later. All other majors in this list are closed to students commencing 2021 or later.

Note:

- These majors are closed to new students. See the note below for further details.

Open Electives - 24 credit points as follows

- Unit Levels: In selecting electives students should note that no more than 30 credit points at Level 1 is permitted for the entire course.

Note:

- Must pass 24 credit points from anywhere in the University, as a major, a minor and/or individual units.

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 with an Elective Minor, Semester 1 Commencing

Year 1

Semester 1

Science Minor Unit

Elective Minor Unit

Semester 2

Elective Minor Unit

Science Minor Unit

**Winter
Term**

Two
Open
Elective
Units

Year 2

Semester 1

Elective Minor Unit

Science Minor Unit

Semester 2

Science Minor Unit

Elective Minor Unit

**Winter
Term**

Two
Open
Elective
Units

Accelerated Full Time with an Elective Minor, Semester 2 Commencing

Year 1

Semester 2

Science Minor Unit

Elective Minor Unit

Year 2

Semester 1

Elective Minor Unit

Science Minor Unit

Semester 2

Elective Minor Unit

Science Minor Unit

**Winter
Term**

Two
Open
Elective
Units

Year 3

Semester 1

Elective Minor Unit

Science Minor Unit

Winter Term

Two Open Elective Units

Accelerated Full Time, Semester 1 Commencing

Year 1

Semester 1

Science Minor Unit

Open Elective Unit

Semester 2

Science Minor Unit

Open Elective Unit

**Winter
Term**

Two
Open
Elective
Units

Year 2

Semester 1

Science Minor Unit

Open Elective Unit

Semester 2

Open Elective Unit

Science Minor Unit

**Winter
Term**

Two
Open
Elective
Units

Accelerated Full Time, Semester 2 Commencing

Year 1

Semester 2

Open Elective Unit

Science Minor Unit

Year 2

Semester 1

Science Minor Unit

Open Elective Unit

Semester 2

Science Minor Unit

Open Elective Unit

Winter**Term**

Two

Open

Elective

Units

Year 3**Semester 1**

Open Elective Unit

Science Minor Unit

Winter Term

Two Open Elective Units

Standard Full Time, Semester 1 Commencing

Year 1**Semester 1**

Open Elective Unit

Science Minor Unit

Semester 2

Science Minor Unit

Open Elective Unit

Year 2**Semester 1**

Science Minor Unit

Open Elective Unit

Semester 2

Science Minor Unit

Open Elective Unit

Year 3**Semester 1**

Two Open Elective Units

Semester 2

Two Open Elective Units

Course information

Course duration

6 semesters full-time; equivalent part-time; maximum 20 semesters.

Learning outcomes

Learning outcomes	Related graduate attributes
To provide students with a flexible preparation for many areas of applied professional or research employment in science	Professionalism and Social Responsibility The capacity and intention to use professional

	<p>knowledge and skills ethically and responsibly, for the benefit of others and the environment</p>
<p>To develop students' skills as informed citizens and enhance interdisciplinary study by developing an in-depth understanding of key discipline areas in science, in parallel with aligned non-science discipline areas</p>	<p>Working Independently and with Others</p> <p>The ability to plan their own work, be self-directed, and use interpersonal skills and attitudes to work collaboratively</p>
<p>To equip students with a range of skills necessary to be independent thinkers, to improve complex reasoning skills, to utilize creative problem solving mechanisms and to develop reasoned and substantiated arguments</p>	<p>Problem Solving</p> <p>The ability to apply problem-solving processes in novel situations; to identify and analyse problems then formulate and implement solutions</p>
<p>To develop students' capacities to generate ideas in science, to understand inquiry-based scholarship in science and to communicate simple and complex concepts effectively</p>	<p>Communication</p> <p>The ability to present knowledge ideas and opinions effectively and communicate within and across professional and cultural boundaries</p>
<p>To design a tailored program of study that addresses academic goals specific to the individual student, using majors and minors from any science and non-science disciplines within the University of Canberra, in accordance with the course structure</p>	<p>Analysis and Inquiry</p> <p>The ability to gather information, and to analyse and evaluate information and situations in a systematic, creative and insightful way</p>

Majors

- [Major in Psychological Science \(MJ0102\)](#)
- [Minor in Mathematical Structures and Computation \(MN0072\)](#)
- [Major in Ecological Conservation \(MJ0036\)](#)
- [Major in Sports Science \(MJ0115\)](#)
- [Major in Forensic Biology \(MJ0043\)](#)
- [Specialist Major in Data Science \(SM0057\)](#)
- [Minor in Psychology: An Introduction \(MN0118\)](#)
- [Major in Genetic Counselling \(MJ0045\)](#)
- [Major in Biology 2 \(MJ0133\)](#)
- [Major in Sustainability \(MJ0155\)](#)
- [Major in Human Biology: From Cells to Organism \(MJ0050\)](#)
- [Minor in Applied Statistics \(MN0005\)](#)
- [Minor in Forensic Toxicology \(MN0155\)](#)

- Minor in Software Engineering (MN0109)
- Major in Psychology: An Introduction (MJ0068)
- Major in Biology 1 (MJ0132)
- Major in Human Biology: Chemical & Molecular Principles (MJ0053)
- Major in Water Science (MJ0124)
- Major in Genetics (MJ0046)
- Major in Forensic Chemistry (MJ0042)
- Major in Software Engineering (MJ0109)
- Minor in Earth Science (MN0136)
- Major in Human Nutrition (MJ0051)
- Major in Information Systems (MJ0059)
- Major in Applied Statistics (MJ0007)
- Major in Network Engineering (MJ0262)
- Major in Applied Ecology (MJ0008)
- Minor in Biological Chemistry (MN0008)
- Minor in Ecology (MN0028)
- Minor in Human Biology (MN0042)
- Minor in Environmental Forensic Science (MN0151)
- Major in Applied Ecology (MJ0008)
- Major in Forensic Chemistry (MJ0042)
- Major in Mathematics (MJ0148)
- Minor in Environmental Management (MN0037)
- Minor in Mathematics (MN0071)
- Minor in Forensic Biology (MN0152)
- Major in Integrated Environmental Management (MJ0060)
- Major in Chemistry (MJ0136)
- Major in Pre-Physiotherapy (MJ0095)
- Major in Biological Chemistry (MJ0013)
- Major in Environmental Assessment (MJ0039)
- Major in Environmental Chemistry (MJ0179)
- Major in Environmental Genetics (MJ0194)
- Major in Sustainable Landscapes (MJ0300)
- Minor in Environmental Assessment (MN0031)
- Minor in Information Systems (MN0045)
- Minor in Forensic Chemistry (MN0154)
- Minor in Human Nutrition (MN0043)
- Minor in Forensic Science (MN0150)
- Minor in Forensic Biosecurity (MN0153)
- Major in Analytical Chemistry (MJ0178)
- Major in Earth Science (21cp) (MJ0301)

Awards

Award	Official abbreviation
Bachelor of Science	BSc

Honours

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

Alternative exits

Bachelor of Science/Bachelor of Laws.

Enrolment data

2020 enrolments for this course by location. Please note that enrolment numbers are indicative only and in no way reflect individual class sizes.

Location	Enrolments
UC - Canberra, Bruce	189

Enquiries

Student category	Contact details
Prospective Domestic Students	Email study@canberra.edu.au or Phone 1800 UNI CAN (1800 864 226)
Prospective International Students	Email international@canberra.edu.au or Phone +61 2 6201 5342
Current and Commencing Students	Please contact the University Student Centre by Email student.centre@canberra.edu.au 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.