

# Graduate Certificate in Data Science (ITC102.1)

Please note these are the 2024 details for this course

## Domestic students

<b>Selection rank</b>	
<b>Delivery mode</b>	On campus Online
<b>Location</b>	Bruce, Canberra
<b>Duration</b>	0.5 years
<b>Faculty</b>	Faculty of Science and Technology
<b>Discipline</b>	Academic Program Area - Technology
<b>UAC code</b>	
<b>English language requirements</b>	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent).  <a href="#">View IELTS equivalences</a>

## International students

<b>Academic entry requirements</b>	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.  <a href="#">View UC's academic entry requirements</a>
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<b>Duration</b>	0.5 years
<b>Faculty</b>	Faculty of Science and Technology
<b>Discipline</b>	Academic Program Area - Technology
<b>CRICOS code</b>	114088F
<b>English language requirements</b>	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent). <a href="#">View IELTS equivalences</a>

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# About this course

## Remain relevant in a data-driven world

UC's new, 100% online Graduate Certificate of Data Science is your ticket to remaining relevant in today's data-driven world. Over the course of the certificate, you'll gain a solid understanding of data science fundamentals including statistics, data analysis, data preparation and data visualisation.

Taught by expert academics, you'll develop your capacity to address complex issues with data-based solutions. You'll be trained to consider both the ethical and technological implications of data reporting and apply your knowledge to real-world examples.

No matter your industry, you'll gain foundational data science skills that can be applied across a diverse range of industries and roles. From health and education to social media and sales, understanding data can unlock insights and patterns that can improve your work.

This certificate offers an immersive, 100% online learning experience, giving you the convenience to manage your study, work and life commitments. Study options include full-time, which can be completed in as little as four months, or part-time study which can be completed in just eight months.

## Further your studies

Thinking about upgrading your qualifications? The Graduate Certificate of Data Science can serve as a foundation for further study, with credit applied to UC's Master of Data Science or other postgraduate Technology qualifications.

## Study a Graduate Certificate of Data Science and you will:

- Learn to identify trends and anomalies within complex data sets.
- Understand, analyse and communicate data insights.
- Explore data analysis, graphical interpretation and modelling techniques.
- Develop a problem-solving mindset and address complex issues with data-based solutions.
- Apply data-driven solutions to real-world situations.
- Gain transferable skills relevant to a wide range of industries.
- Consider the ethical considerations of data reporting and analysis.
- Access UC's digital resources, materials and support services.

## Career outcomes

- Data Scientist
- Data Engineer
- Data Analyst
- Statistician

## Progress your career with a Graduate Certificate in Data Science

Discover how you can study data science online by downloading your free course brochure.

[Download your free course brochure](#)

## Professional accreditation

None.

# Admission requirements

Applicants must have an Australian Bachelor degree in any field or equivalent.

## Additional admission requirements

NOTE: For Graduate Certificate in Data Science full time admission only available in Semester 1 and part-time admission only available in Semester 2.

## Assumed knowledge

Year 12 mathematics and functional knowledge of using computer systems.

## Periods course is open for new admissions

Year	Location	Teaching period	Teaching start date	Domestic	International
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2024	Bruce, Canberra	Semester 1	05 February 2024	✓	✓
2024	Bruce, Canberra	Semester 2	29 July 2024	✓	
2025	Bruce, Canberra	Semester 1	03 February 2025	✓	✓
2025	Bruce, Canberra	Semester 2	28 July 2025	✓	
2026	Bruce, Canberra	Semester 1	02 February 2026	✓	✓
2026	Bruce, Canberra	Semester 2	27 July 2026	✓	

## 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

## Graduate Certificate in Data Science (ITC102) | 12 credit points

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

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

[Introduction to Statistics G \(6554\) | 3 credit points – Level G](#)

[Introduction to Data Science G \(11516\) | 3 credit points – Level G](#)

[Exploratory Data Analysis and Visualisation G \(11517\) | 3 credit points – Level G](#)

[Data Capture and Preparations G \(11520\) | 3 credit points – Level G](#)

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

[Data Capture and Preparations G \(11520\)](#)

[Exploratory Data Analysis and Visualisation G \(11517\)](#)

[Introduction to Data Science G \(11516\)](#)

[Introduction to Statistics G \(6554\)](#)

## Standard Part Time, Semester 2 Commencing

### Year 1

#### Semester 2

[Introduction to Data Science G \(11516\)](#)

[Introduction to Statistics G \(6554\)](#)

### Year 2

#### Semester 1

[Data Capture and Preparations G \(11520\)](#)

[Exploratory Data Analysis and Visualisation G \(11517\)](#)

# Course information

## Course duration

Standard 1 semester full time or part time equivalent. The maximum duration is 3 years.

## Learning outcomes

Learning outcomes	Related graduate attributes
Communicate theoretical and technical data science concepts, information, and ideas to a variety of audiences using appropriate media.	UC graduates are professional: Communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; display initiative and drive, and use their organisational skills to plan and manage their workload; take pride in their professional and personal integrity.  UC graduates are global citizens: Adopt an informed and balanced approach across professional and international boundaries; understand issues in their profession from

the perspective of other cultures; make creative use of technology in their learning and professional lives.

UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; evaluate and adopt new technology.

Develop specialised knowledge of data science principles, concepts, and tools.

UC graduates are professional: 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; display initiative and drive, and use their organisational skills to plan and manage their workload; take pride in their professional and personal integrity.

UC graduates are global citizens: 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; make creative use of technology in their learning and professional lives.

UC graduates are lifelong learners: Evaluate and adopt new technology.

Critically analyse and interpret mathematical and statistical data and other data science information to investigate and solve complex problems.

UC graduates are professional: 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; display initiative and drive, and use their organisational skills to plan and manage their workload; take pride in their professional and personal integrity.

UC graduates are global citizens: 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; make creative use of technology in their learning and professional lives; behave ethically and sustainably in their professional and personal lives.

UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; evaluate and adopt new technology.

Evaluate and apply common programming, modelling, data management, data visualisation, and data mining tools as appropriate to the data, task and/or environment.

UC graduates are professional: Employ up-to-date and relevant knowledge and skills; 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; display initiative and drive, and use their organisational skills to plan and manage their workload; take pride in their professional and personal integrity.

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## Awards

Award	Official abbreviation
Graduate Certificate in Data Science	GradCert DataSc

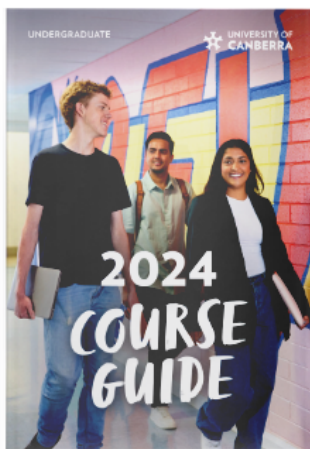
## Honours

None.

## 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)
Current and Commencing Students	In person, Student Centre Building 1 or Email <a href="mailto:Student.Centre@canberra.edu.au">Student.Centre@canberra.edu.au</a>
Prospective International Students	Email <a href="mailto:international@canberra.edu.au">international@canberra.edu.au</a> or Phone +61 2 6201 5342

## Download your course guide



# Scholarships

Find the scholarship that's the right fit for you

[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.