

## Master of Business Informatics (309JA.2)

Please note these are the 2021 details for this course

### Domestic students

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Selection rank PG

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English language requirements

An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent).

[View IELTS equivalences](#)

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Duration 2.0 years

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UAC code 880250

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Faculty Faculty of Science and Technology

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Discipline Academic Program Area - Technology

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Location UC - Canberra, Bruce

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Fees 2021: \$22,500 per year  
2022: \$24,000 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. 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

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Academic entry requirements

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

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

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<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>
<b>CRICOS code</b>	087618B
<b>Faculty</b>	Faculty of Science and Technology
<b>Discipline</b>	Academic Program Area - Technology
<b>Location</b>	UC - Canberra, Bruce
<b>Duration</b>	2.0 years
<b>Fees</b>	2021: \$33,100 per year 2022: \$34,100 per year <b>Disclaimer:</b>  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 <a href="#">here</a> .

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## About this course

### Master the business of informatics at UC

If you're in IT and looking to get ahead, then the UC Master of Business Informatic course offers the perfect opportunity to expand your skills in areas vital to the intertwined worlds of Business and Information Technology - while simultaneously gaining the knowledge and qualifications to give your career a much-needed boost.

This two-year program has been created to address key areas pertinent to IT professionals and is of particular advantage to those looking at progressing into a career as business analysts.

This course also offers students a range of electives to help you fine-tune your qualifications and specialise in areas such as accounting, HR, strategic management, data analytics or information sciences.

On completion of the course you will be able to return to the workforce as a confident, competent specialist with the knowledge and skills to progress comfortably into a career in a variety of specialised IT roles, such as program analyst, systems architect, information systems manager, and beyond.

This course offers you the chance to prepare you for a career in the 'knowledge economy' and is accredited by the Australian Computer Society.

This course also offers you the chance to specialise in Cloud Computing, Cybersecurity, Data Science, Project Management or Social Informatics.

### Study a Master of Business Informatics at UC and you will:

- demonstrate an understanding of theoretical concepts and develop an appropriate set of data models for relational database

implementation

- undertake a human-computer interaction design project
- critically analyse complex business processes
- be able to derive advanced system models appropriately
- learn how to use international standard systems description paradigms and languages
- prepare and critically evaluate documents associated with project planning, monitoring, review and quality
- use SPSS and gain knowledge of key data and national and international indicators from Australia and other Asia-Pacific countries.

## Work Integrated Learning (WIL)

The concept of WIL is a vital component to the UC approach to higher education as it offers students the opportunity to gain practical experience working alongside industry professionals and dealing with real world issues relating to their areas of study.

As part of this course you will be tasked with undertaking a specialised research project where you'll be encouraged to use issues relating to your current or past work life and use these issues to research innovative solutions life under the support and guidance of professional academic mentors.

In addition, this course also allows you to tailor your learning around your specific areas of interest and future employment aspirations, and internships are possible as part of your range of elective units.

Previous Business Informatics internships and cadetships with organisations include: PricewaterhouseCoopers (PwC), Fujitsu Australia, Birdsnest, the University of Canberra, and more.

## Career opportunities

A Master of Business Informatics from UC is a globally recognised qualification that can help you progress into a range of careers including working as a:

- IT security analyst
- IT systems test engineer
- business analyst
- data scientist
- IT project manager
- systems architect
- web developer
- systems analyst
- ICT consultant
- information analyst
- information systems manager
- IT auditor
- IT business manager
- solutions engineer.

## Course-specific information

This course is accredited by the Australian Computer Society at Professional level.

A clear pathway of study exists between this degree, the undergraduate Bachelor of Business Informatics, and the postgraduate Graduate Certificate and Graduate Diploma in Business Informatics courses. Credit equivalent to the Graduate Diploma in Business Informatics may be given to applicants who have an undergraduate Business Informatics or Information Technology degree AND 3 years of relevant work experience.

## Professional accreditation

Master of Business Informatics is accredited by the Australian Computer Society (ACS) at the Professional level.

## Admission requirements

A Bachelor degree from Australia or a recognised overseas institution. No previous Business Informatics or ICT knowledge is assumed.

## Assumed knowledge

Proficiency in using computers.

## 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	Semester 2	02 August 2021	✓	✓
2022	UC - Canberra, Bruce	Semester 1	07 February 2022	✓	✓
2022	UC - Canberra, Bruce	Semester 2	01 August 2022	✓	✓
2023	UC - Canberra, Bruce	Semester 1	06 February 2023	✓	✓
2023	UC - Canberra, Bruce	Semester 2	31 July 2023	✓	✓

## Credit arrangements

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

## Course requirements

### Master of Business Informatics (309JA) | 48 credit points

Required - Must pass 24 credit points as follows

[Professional Practice in IT G \(6676\) | 3 credit points – Level G](#)

[Systems Analysis and Modelling G \(6677\) | 3 credit points – Level G](#)

[Systems Project and Quality Management G \(6678\) | 3 credit points – Level G](#)

[IT and Business Alignment PG \(6683\) | 3 credit points – Level P](#)

[Inf. Sc. Research Methodology PG \(6797\) | 3 credit points – Level P](#)

[Information Systems Management PG \(7109\) | 3 credit points – Level P](#)

[Technology Capstone Research Project PG \(11522\) | 6 credit points – Level P](#)

- Students may seek permission from the Program Director to replace one or more Required units with other units by writing a report detailing their previous experience or study.

**Award Options - Must select 1 of the following**

**No Specialisation - Must pass 24 credit points from the following**

**G Level Units - May do up to 9 credit points from the following**

- Introduction to Statistics G (6554) | 3 credit points – Level G
- Database Design G (6672) | 3 credit points – Level G
- Designing Human-Computer Interaction G (6673) | 3 credit points – Level G
- Security and Support in IT G (6689) | 3 credit points – Level G
- Web Design and Programming G (6691) | 3 credit points – Level G
- Discrete Mathematics G (6699) | 3 credit points – Level G
- Software Systems Architecture G (8746) | 3 credit points – Level G
- Systems Software G (8935) | 3 credit points – Level G
- Introduction to Information Technology G (8936) | 3 credit points – Level G
- Mathematical Structures G (8938) | 3 credit points – Level G
- Software Technology 1 G (8995) | 3 credit points – Level G
- Introduction to Digital Forensics G (9075) | 3 credit points – Level G
- Management Information Systems G (9503) | 3 credit points – Level G
- Introduction to Network Engineering G (10088) | 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
- Enterprise Systems G (11518) | 3 credit points – Level G
- Data Capture and Preparations G (11520) | 3 credit points – Level G
- Programming for Data Science G (11521) | 3 credit points – Level G
- Workflow and Process Management G (11529) | 3 credit points – Level G
- Technological Innovation and Entrepreneurship G (11530) | 3 credit points – Level G

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.
- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.
- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

**PG Level Units - Must do at least 15 credit points from the following**

- Business Intelligence Systems PG (6680) | 3 credit points – Level P
- Information Security PG (6682) | 3 credit points – Level P
- Knowledge Management Systems PG (6688) | 3 credit points – Level P
- Computer and Network Security PG (6697) | 3 credit points – Level P
- Business Informatics Case Studies PG (7106) | 3 credit points – Level P
- Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P
- Game Programming Techniques PG (7191) | 3 credit points – Level P
- Social Informatics PG (7196) | 3 credit points – Level P
- Soft Computing PG (7197) | 3 credit points – Level P
- Information Sciences Internship PG (7900) | 3 credit points – Level P
- Project Management PG (8427) | 3 credit points – Level P

Data Analytics and Business Intelligence PG (8697) | 3 credit points – Level P

Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P

Pattern Recognition and Machine Learning PG (11512) | 3 credit points – Level P

Internet of Things PG (11513) | 3 credit points – Level P

System and Network Administration PG (11515) | 3 credit points – Level P

AR/VR for Data Analysis and Communication PG (11524) | 3 credit points – Level P

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

Cloud Computing Architecture PG (11527) | 3 credit points – Level P

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

- Awards: To have a specialisation on the degree testamur, a student must complete at least 5 PG Level units from that specialisation. Only 1 specialisation can appear on the degree testamur.

- Unit Availability: In any semester, only a selection of units are on offer.

#### **Cybersecurity specialisation - 24 credit points as follows**

##### **Specialist Units - Must pass at least 18 credit points from the following**

Information Security PG (6682) | 3 credit points – Level P

Security and Support in IT G (6689) | 3 credit points – Level G

Computer and Network Security PG (6697) | 3 credit points – Level P

Introduction to Digital Forensics G (9075) | 3 credit points – Level G

Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P

System and Network Administration PG (11515) | 3 credit points – Level P

Cloud Computing Architecture PG (11527) | 3 credit points – Level P

- Students may not have more than three G Level units for the entire specialisation.

##### **Restricted Choice Units - May do up to 6 credit points from the following**

##### **G Level Units - May select from**

Introduction to Statistics G (6554) | 3 credit points – Level G

Database Design G (6672) | 3 credit points – Level G

Designing Human-Computer Interaction G (6673) | 3 credit points – Level G

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Introduction to Information Technology G (8936) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

Software Technology 1 G (8995) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

Introduction to Network Engineering G (10088) | 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

Enterprise Systems G (11518) | 3 credit points – Level G

Data Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

Workflow and Process Management G (11529) | 3 credit points – Level G

Technological Innovation and Entrepreneurship G (11530) | 3 credit points – Level G

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.

- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.

- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

**PG Level Units - May select from**

Business Intelligence Systems PG (6680) | 3 credit points – Level P

Knowledge Management Systems PG (6688) | 3 credit points – Level P

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

Game Programming Techniques PG (7191) | 3 credit points – Level P

Social Informatics PG (7196) | 3 credit points – Level P

Soft Computing PG (7197) | 3 credit points – Level P

Information Sciences Internship PG (7900) | 3 credit points – Level P

Project Management PG (8427) | 3 credit points – Level P

Data Analytics and Business Intelligence PG (8697) | 3 credit points – Level P

Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

Pattern Recognition and Machine Learning PG (11512) | 3 credit points – Level P

Internet of Things PG (11513) | 3 credit points – Level P

AR/VR for Data Analysis and Communication PG (11524) | 3 credit points – Level P

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

**Cloud Computing specialisation - 24 credit points as follows**

**Specialist Units - Must pass at least 18 credit points from the following**

Security and Support in IT G (6689) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Law, Innovation and Technologies PG (11471) | 3 credit points – Level P

Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P

Internet of Things PG (11513) | 3 credit points – Level P

Cloud Computing Architecture PG (11527) | 3 credit points – Level P

- Students may not have more than three G Level units for the entire specialisation.

**Restricted Choice Units - May do up to 6 credit points from the following**

**G Level Units - May select from**

Introduction to Statistics G (6554) | 3 credit points – Level G

Database Design G (6672) | 3 credit points – Level G

Designing Human-Computer Interaction G (6673) | 3 credit points – Level G

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Introduction to Information Technology G (8936) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

Software Technology 1 G (8995) | 3 credit points – Level G

Introduction to Digital Forensics G (9075) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

Introduction to Network Engineering G (10088) | 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

Enterprise Systems G (11518) | 3 credit points – Level G

Data Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

Workflow and Process Management G (11529) | 3 credit points – Level G

Technological Innovation and Entrepreneurship G (11530) | 3 credit points – Level G

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.
- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.
- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

**PG Level Units - May select credit points from the following**

Business Intelligence Systems PG (6680) | 3 credit points – Level P

Information Security PG (6682) | 3 credit points – Level P

Knowledge Management Systems PG (6688) | 3 credit points – Level P

Computer and Network Security PG (6697) | 3 credit points – Level P

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

Game Programming Techniques PG (7191) | 3 credit points – Level P

Social Informatics PG (7196) | 3 credit points – Level P

Soft Computing PG (7197) | 3 credit points – Level P

Information Sciences Internship PG (7900) | 3 credit points – Level P

Project Management PG (8427) | 3 credit points – Level P

Data Analytics and Business Intelligence PG (8697) | 3 credit points – Level P

Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

Pattern Recognition and Machine Learning PG (11512) | 3 credit points – Level P

System and Network Administration PG (11515) | 3 credit points – Level P



AR/VR for Data Analysis and Communication PG (11524) | 3 credit points – Level P

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

**Social Informatics specialisation - 24 credit points as follows**

**Specialist Units - Must pass at least 18 credit points from the following**

Designing Human-Computer Interaction G (6673) | 3 credit points – Level G

Business Intelligence Systems PG (6680) | 3 credit points – Level P

Information Security PG (6682) | 3 credit points – Level P

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Information Systems Management PG (7109) | 3 credit points – Level P

Social Informatics PG (7196) | 3 credit points – Level P

Social Media G (9436) | 3 credit points – Level G

- Students may not have more than three G Level units for the entire specialisation.

**Restricted Choice Units - May do up to 6 credit points from the following**

**G Level Units - May select from**

Introduction to Statistics G (6554) | 3 credit points – Level G

Database Design G (6672) | 3 credit points – Level G

Security and Support in IT G (6689) | 3 credit points – Level G

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Introduction to Information Technology G (8936) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

Software Technology 1 G (8995) | 3 credit points – Level G

Introduction to Digital Forensics G (9075) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

Introduction to Network Engineering G (10088) | 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

Enterprise Systems G (11518) | 3 credit points – Level G

Data Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

Workflow and Process Management G (11529) | 3 credit points – Level G

Technological Innovation and Entrepreneurship G (11530) | 3 credit points – Level G

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.

- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.

- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

**PG Level Units - May select from**

Knowledge Management Systems PG (6688) | 3 credit points – Level P

Computer and Network Security PG (6697) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

Game Programming Techniques PG (7191) | 3 credit points – Level P

Soft Computing PG (7197) | 3 credit points – Level P

Information Sciences Internship PG (7900) | 3 credit points – Level P

Project Management PG (8427) | 3 credit points – Level P

Data Analytics and Business Intelligence PG (8697) | 3 credit points – Level P

Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P

Pattern Recognition and Machine Learning PG (11512) | 3 credit points – Level P

Internet of Things PG (11513) | 3 credit points – Level P

System and Network Administration PG (11515) | 3 credit points – Level P

AR/VR for Data Analysis and Communication PG (11524) | 3 credit points – Level P

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

Cloud Computing Architecture PG (11527) | 3 credit points – Level P

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

**Project Management specialisation - 24 credit points as follows****Specialist Units - Must pass at least 18 credit points from the following**

Systems Analysis and Modelling G (6677) | 3 credit points – Level G

Business Intelligence Systems PG (6680) | 3 credit points – Level P

Information Security PG (6682) | 3 credit points – Level P

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Information Systems Management PG (7109) | 3 credit points – Level P

Project Management PG (8427) | 3 credit points – Level P

Enterprise Systems G (11518) | 3 credit points – Level G

Workflow and Process Management G (11529) | 3 credit points – Level G

- Students may not have more than three G Level units for the entire specialisation.

**Restricted Choice Units - May do up to 6 credit points from the following****G Level Units - May select from**

Introduction to Statistics G (6554) | 3 credit points – Level G

Database Design G (6672) | 3 credit points – Level G

Designing Human-Computer Interaction G (6673) | 3 credit points – Level G

Security and Support in IT G (6689) | 3 credit points – Level G

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G  
Introduction to Information Technology G (8936) | 3 credit points – Level G  
Mathematical Structures G (8938) | 3 credit points – Level G  
Software Technology 1 G (8995) | 3 credit points – Level G  
Introduction to Digital Forensics G (9075) | 3 credit points – Level G  
Management Information Systems G (9503) | 3 credit points – Level G  
Introduction to Network Engineering G (10088) | 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  
Programming for Data Science G (11521) | 3 credit points – Level G  
Technological Innovation and Entrepreneurship G (11530) | 3 credit points – Level G

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.
- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.
- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

**PG Level Units - May select from**

Knowledge Management Systems PG (6688) | 3 credit points – Level P  
Computer and Network Security PG (6697) | 3 credit points – Level P  
Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P  
Game Programming Techniques PG (7191) | 3 credit points – Level P  
Social Informatics PG (7196) | 3 credit points – Level P  
Soft Computing PG (7197) | 3 credit points – Level P  
Information Sciences Internship PG (7900) | 3 credit points – Level P  
Data Analytics and Business Intelligence PG (8697) | 3 credit points – Level P  
Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P  
Programming Natural User Interfaces PG (8891) | 3 credit points – Level P  
Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P  
Pattern Recognition and Machine Learning PG (11512) | 3 credit points – Level P  
Internet of Things PG (11513) | 3 credit points – Level P  
System and Network Administration PG (11515) | 3 credit points – Level P  
AR/VR for Data Analysis and Communication PG (11524) | 3 credit points – Level P  
Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P  
Cloud Computing Architecture PG (11527) | 3 credit points – Level P  
Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

**Data Science specialisation - 24 credit points as follows**

**Specialist Units - Must pass at least 18 credit points from the following**

Introduction to Statistics G (6554) | 3 credit points – Level G  
Soft Computing PG (7197) | 3 credit points – Level P  
Data Analytics and Business Intelligence PG (8697) | 3 credit points – Level P

Pattern Recognition and Machine Learning PG (11512) | 3 credit points – Level P

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

Programming for Data Science G (11521) | 3 credit points – Level G

AR/VR for Data Analysis and Communication PG (11524) | 3 credit points – Level P

- Students may not have more than three G Level units for the entire specialisation.

**Restricted Choice Units - May do up to 6 credit points from the following**

**G Level Units - May select from**

Database Design G (6672) | 3 credit points – Level G

Designing Human-Computer Interaction G (6673) | 3 credit points – Level G

Security and Support in IT G (6689) | 3 credit points – Level G

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Introduction to Information Technology G (8936) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

Software Technology 1 G (8995) | 3 credit points – Level G

Introduction to Digital Forensics G (9075) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

Introduction to Network Engineering G (10088) | 3 credit points – Level G

Enterprise Systems G (11518) | 3 credit points – Level G

Workflow and Process Management G (11529) | 3 credit points – Level G

Technological Innovation and Entrepreneurship G (11530) | 3 credit points – Level G

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.

- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.

- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

**PG Level Units - May select from**

Business Intelligence Systems PG (6680) | 3 credit points – Level P

Information Security PG (6682) | 3 credit points – Level P

Knowledge Management Systems PG (6688) | 3 credit points – Level P

Computer and Network Security PG (6697) | 3 credit points – Level P

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

Game Programming Techniques PG (7191) | 3 credit points – Level P

Social Informatics PG (7196) | 3 credit points – Level P

Information Sciences Internship PG (7900) | 3 credit points – Level P

Project Management PG (8427) | 3 credit points – Level P

Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P

Internet of Things PG (11513) | 3 credit points – Level P

System and Network Administration PG (11515) | 3 credit points – Level P

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

Cloud Computing Architecture PG (11527) | 3 credit points – Level P

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

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

Standard Full Time, Semester 1 Commencing

#### Year 1

##### Semester 1

Professional Practice in IT G (6676)

One Restricted Choice Unit (G Level)

[Systems Analysis and Modelling G \(6677\)](#)

[Systems Project and Quality Management G \(6678\)](#)

##### Semester 2

[Inf. Sc. Research Methodology PG \(6797\)](#)

[Information Systems Management PG \(7109\)](#)

Two Restricted Choice Units (G Level)

#### Year 2

##### Semester 1

Three Restricted Choice Units (PG Level)

[IT and Business Alignment PG \(6683\)](#)

##### Semester 2

Two Restricted Choice Units (PG Level)

[Technology Capstone Research Project PG \(11522\)](#)

Standard Full Time, Semester 2 Commencing

#### Year 1

##### Semester 2

Three Restricted Choice Units (G Level)

[Professional Practice in IT G \(6676\)](#)

#### Year 2

##### Semester 1

[IT and Business Alignment PG \(6683\)](#)

[Systems Analysis and Modelling G \(6677\)](#)

##### Semester 2

[Inf. Sc. Research Methodology PG \(6797\)](#)

Two Restricted Choice Units (PG Level)

One Restricted Choice Unit (PG Level)

Year 3

Semester 1

Technology Capstone Research Project PG (11522)

Two Restricted Choice Units (PG Level)

## Course information

### Course duration

Standard 2 years full time, or part time equivalent. Maximum - 6 years.

### Learning outcomes

Learning outcomes	Related graduate attributes
<p>Analyse, interpret and synthesise complex problems, solutions, concepts or theories in information technology and systems area, to address the needs of a broad range of stakeholders, including technology specialists, managers, clients, regulators, etc.</p>	<p>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; display initiative and drive, and use their organisational skills to plan and manage their workload; and take pride in their professional and personal integrity.</p> <p>UC graduates are global citizens: Think globally about issues in their profession; make creative use of technology in their learning and professional lives; and behave ethically and sustainably in their professional and personal lives.</p> <p>UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; and evaluate and adopt new technology.</p>
<p>Achieve expertise in a key area of information technology and systems, with superior ethical and social skills and competencies in problem solving, and a sound fundamental understanding of the principles and methods of business informatics.</p>	<p>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; and work collaboratively as part of a team, negotiate, and resolve conflict.</p> <p>UC graduates are global citizens: Understand issues in their profession from the perspective of other cultures; communicate effectively in diverse cultural and social settings; and behave ethically and sustainably in their professional and personal lives.</p> <p>UC graduates are lifelong learners: Evaluate and adopt new technology.</p>
<p>Navigate in an increasingly complex global technological innovation environment, with legal,</p>	<p>UC graduates are professional: Employ up-to-date and relevant knowledge and</p>

ethical, economic and business-related challenges, in a fast-changing field.

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; and take pride in their professional and personal integrity.

UC graduates are global citizens: Think globally about issues in their profession; and 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; and evaluate and adopt new technology.

Develop an advanced and integrated understanding and innovation mindset, to identify and analyse complex problems within information technology and systems discipline, and design sustainable novel technology solutions to these problems at a highly skilled level.

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; and take pride in their professional and personal integrity.

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

UC graduates are lifelong learners: Be self-aware; adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and evaluate and adopt new technology.

Establish deep knowledge base in information technology and systems discipline, to facilitate effective communication with those involved in the ITS industry and acquire the skills necessary to operationally manage and coordinate IT systems within the ITS industry.

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; and display initiative and drive, and use their organisational skills to plan and manage their workload.

UC graduates are global citizens: Understand issues in their profession from the perspective of other cultures; and communicate effectively in diverse cultural and social settings.

UC graduates are lifelong learners: 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; and evaluate and adopt new technology.

Use professional skills and knowledge in the systematic development of complex information technologies and systems and apply their skills and

UC graduates are professional: Employ up-to-date and relevant knowledge and skills; use creativity, critical thinking, analysis and research skills to solve

knowledge in a professionally responsible manner.

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; and take pride in their professional and personal integrity.

UC graduates are global citizens: Think globally about issues in their profession; understand issues in their profession from the perspective of other cultures; communicate effectively in diverse cultural and social settings; and 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; adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and evaluate and adopt new technology.

## Awards

Award	Official abbreviation
Master of Business Informatics	M BusInformatics
Master of Business Informatics in Cloud Computing	M BusInformatics CloudComp
Master of Business Informatics in Project Management	M BusInformatics ProjectMgt
Master of Business Informatics in Social Informatics	M BusInformatics SocInformatics
Master of Business Informatics in Cybersecurity	M BusInformatics Cybersecurity
Master of Business Informatics in Data Science	M BusInformatics DataSc

## Alternative exits

Alternative exits: Graduate Certificate in Business Informatics - Must have passed 12 credit points as follows: Professional Practice in IT G, Systems Analysis and Modelling G, System Project and Quality Management G and Enterprise Systems G (or other Information Technology and Systems units at G or PG Level as approved by the Program Director). Graduate Diploma in Business Informatics - Must have passed 24 credit points of Information Technology and Systems units at G or PG Level including, Professional Practice in IT G, Systems Analysis and Modelling G, System Project and Quality Management G and Enterprise Systems G, with at least 6 credit points at PG Level. Combined vertical degree: The Master of Business Informatics may be combined with any Bachelor course (excluding Bachelor of Information Technology, Bachelor of Software Engineering and Bachelor of Business Informatics) that allows at least 24 credit points of Open Electives in the structure. This combined vertical degree may be completed with 96 credit points instead of the usual 120 (72 for the Bachelor and 48 for the Master). To be eligible, students must meet the entry requirements for BOTH courses.

## 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	83

## Enquiries

Student category	Contact details
Prospective Domestic Students	Email <a href="mailto:study@canberra.edu.au">study@canberra.edu.au</a> or Phone 1800 UNI CAN (1800 864 226)
Prospective International Students	Email <a href="mailto:international@canberra.edu.au">international@canberra.edu.au</a> or Phone +61 2 6201 5342
Current and Commencing Students	In person, Student Centre Building 1 or Email: <a href="mailto:Student.Centre@canberra.edu.au">Student.Centre@canberra.edu.au</a>

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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.