

# Bachelor of Software Engineering/Bachelor of Business Informatics (838AA.2)

Please note these are the 2017 details for this course

## Domestic students

Selection rank	68.00
	<b>Note:</b> The selection rank is the minimum ATAR plus adjustment factors required for admission to the program in the previous year. This is an indicative guide only as ranks change each year depending on demand.
Delivery mode	On campus
Location	
Duration	4.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
UAC code	
English language requirements	An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent). <a href="#">View IELTS equivalences</a>

## International students

<b>Academic entry requirements</b>	<p>To study at UC, you'll need to meet our academic entry requirements and any admission requirements specific to your course. Please read your course admission requirements below. To find out whether you meet UC's academic entry requirements, visit our <a href="#">academic entry requirements page</a>.</p> <p><a href="#">View UC's academic entry requirements</a></p>
<b>Delivery mode</b>	On campus
<b>Location</b>	
<b>Duration</b>	4.0 years
<b>Faculty</b>	Faculty of Science and Technology
<b>Discipline</b>	Academic Program Area - Technology
<b>CRICOS code</b>	056138G
<b>English language requirements</b>	<p>An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent).</p> <p><a href="#">View IELTS equivalences</a></p>

# About this course

## Double degree: Pioneer complete IT solutions for any business

Develop the strongest possible knowledge of information systems, information technology (IT) and their relationship to supporting business.

Design and build advanced systems for a wide range of business endeavours. Be an asset to any employer who values innovative problem solving with hands-on technological skills and a sensitivity to work practice.

## Combine your Bachelor of Software Engineering with a Bachelor of Business Informatics at UC to:

- understand the needs of business and be able to develop solutions to solve business problems
- examine work practice issues and the intent and context of systems
- acquire a range of business languages used in accounting, management and statistics

- work with real clients on professional projects.

## Study opportunities

- Take advantage of our internships for valuable industry experience.
- Exit this course early with a:
  - Bachelor of Software Engineering
  - Bachelor of Business Informatics.

## Career opportunities

This course is accredited with the Australian Computer Society (ACS) at the professional level.

## Important to know

Fast track your career and finish in 4 years.

## Professional accreditation

This course is accredited with the Australian Computer Society at the professional level.

# Admission requirements

Normal UC requirements for admission to an undergraduate course.

## Additional admission requirements

Refer to individual courses.

## Assumed knowledge

Refer to individual courses.

## Periods course is open for new admissions

This course is not open for new admissions.

## Credit arrangements

There are currently no formal credit transfer arrangements for entry to this course. Any previous study or work experience will only be considered as part of the application process in accordance with current [course rules and university policy](#).

# Course requirements

Bachelor of Software Engineering/Bachelor of Business Informatics

## (838AA) | 96 credit points

**Required - 90 credit points as follows**

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

### **Major in Information Systems (BSE/BBI) (Restricted) (MJ0162) | 18 credit points**

**Required - Must pass 18 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

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

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

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

Note:

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

### **Major in Software Engineering (BSE/BBI) (Restricted) (MJ0163) | 21 credit points**

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

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

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

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

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

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

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

Note:

- From 2019 the unit code for System Software has changed to 11489.

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

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

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

### **Major in Business Informatics (BSE/BBI) (Restricted) (MJ0159) | 18 credit points**

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

Information Law (7034) | 3 credit points — Level 3

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

Business Informatics Case Studies (7155) | 3 credit points – Level 3

Professional Practice in IT (7722) | 3 credit points – Level 1

Business Informatics Internship (8717) | 6 credit points – Level 3

Note:

- From 2019 the unit code for Information Law has changed to 11271 and for Sociology of Technology & Work to 11249.

## **Major in Applied Software Engineering (BSE/BI) (Restricted) (MJ0164) | 21 credit points**

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

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

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

Security and Support in IT (7167) | 3 credit points – Level 2

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

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

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

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

Problem Analysis and Statistics (8732) | 3 credit points – Level 1

#### **Part B - Must pass 6 credit points from the following**

Information Technology Project (7164) | 6 credit points – Level 3

Information & Communication Technology Project (9785) | 6 credit points – Level 3

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

Introduction to Management (4207) | 3 credit points – Level 1

Accounting for Managers (5617) | 3 credit points – Level 1

Organisational Performance (7079) | 3 credit points – Level 2

Organisational Behaviour (7878) | 3 credit points – Level 2

#### **Open Electives - 6 credit points as follows**

- - Must pass 6 credit points from anywhere in the University.

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

# Typical study pattern

UC - Canberra, Bruce

Standard Full Time, Semester 1 Commencing

## Year 1

### Semester 1

[Discrete Mathematics \(6698\)](#)

[Information Systems in Organisations \(6348\)](#)

[Introduction to Information Technology \(4478\)](#)

[Introduction to Software Engineering \(5531\)](#)

### Semester 2

[Database Design \(5915\)](#)

[Professional Practice in IT \(7722\)](#)

[Software Technology 1 \(4483\)](#)

MJ0164 Restricted Choice Unit

MJ0164 Restricted Choice Part A Unit

## Year 2

### Semester 1

[Designing Human-Computer Interaction \(6389\)](#)

[Introduction to Management \(4207\)](#)

[Software Technology 2 \(7170\)](#)

[System Software \(7171\)](#)

### Semester 2

[Organisational Behaviour \(7878\)](#)

[Sociology of Technology and Work \(7087\)](#)

[Systems Analysis and Modelling \(6365\)](#)

[Web Design and Programming \(7175\)](#)

## Year 3

#### Semester 1

[Accounting for Managers \(5617\)](#)

[Document and Workflow Management \(6388\)](#)

[Object Oriented Software Design \(7165\)](#)

[Organisational Performance \(7079\)](#)

#### Semester 2

[Information Law \(7034\)](#)

[Security and Support in IT \(7167\)](#)

Open Elective Unit

MJ0163 Restricted Choice Unit

#### Year 4

##### Semester 1

[Business Informatics Internship \(8717\)](#)

[Business Intelligence Systems \(7156\)](#)

Open Elective Unit

##### Semester 2

[Business Informatics Case Studies \(7155\)](#)

[Distributed Systems Technology \(7159\)](#)

[Information & Communication Technology Project \(9785\)](#)

# Course information

## Course duration

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

## Learning outcomes

Learning outcomes	Related graduate attributes
Knowledge and skills of the cutting edge development in the information technology (IT) industry and application of the knowledge and skills to real life IT systems and their business environments, policies, and management, independently and/or work in a team.	Analysis and enquiry;  Working independently and with others.

<p>Solid foundation of the relevant theories and the basic principles in IT fields, including business, information systems, system analysis and modelling, system administration, security, networking, software development, and artificial intelligence etc.; from the foundation to acquire up-to-date knowledge and skills in the future.</p>	<p>Analysis and enquiry;</p> <p>Personal attributes: critical thinking, reflective practice, thriving in an environment of change.</p>
<p>Knowledge, skills, understanding and application of the investigation, analysis, and synthesis to IT systems and their business environments, policies, and management with a high level of professional ethics, responsibilities, values and standards.</p>	<p>Analysis and enquiry;</p> <p>Problem solving;</p> <p>Professionalism and social responsibility;</p> <p>Personal attributes: critical thinking, reflective practice, thriving in an environment of change.</p>
<p>Communication skills in listening, reading, speaking, explaining, teaching, and writing from and to audiences of different backgrounds and papers of different scopes and levels.</p>	<p>Professionalism and social responsibility;</p> <p>Communication; Problem solving;</p> <p>Working independently and with others.</p>
<p>Expertise and skills to critique, synthesise and apply new development, skills, knowledge, and standards in the IT fields to real world IT systems, with respect to their business environments, policies, and management.</p>	<p>Analysis and enquiry;</p> <p>Problem solving;</p> <p>Personal attributes: critical thinking, reflective practice, thriving in an environment of change.</p>
<p>Expertise and skills in research to test established theories against a body of knowledge in IT fields; expertise and skills in designing and testing hypothesis for problem solving and conducting</p>	<p>Analysis and enquiry;</p>



research; expertise and skills in contributing new knowledge and skills to the IT fields.	<p>Problem solving;</p> <p>Personal attributes: critical thinking, reflective practice, thriving in an environment of change.</p>
<p>Knowledge:</p> <p>Graduates who complete the Bachelor of Business Informatics will obtain a body of knowledge that includes the understanding of recent developments in the information systems discipline and associated professional practice. In particular, graduates will acquire knowledge that will help to understand the intent and context of systems; business processes and associated work practices, requirements and information needs; and the impacts of actions on the business as a whole.</p>	---
<p>Skills:</p> <p>Graduates who complete the Bachelor of Business Informatics will have developed:</p> <ul style="list-style-type: none"> <li>- cognitive skills to demonstrate mastery of theoretical knowledge and to reflect critically on theory and professional practice in the areas of business analysis, business change management and implementation, project management and business strategy and planning of information systems. Graduates will have the ability to analyse and evaluate complex problems in a range of different information systems situations.</li> <li>- communication skills to transmit and interpret information systems work to technical and business stakeholders.</li> </ul>	<p>Communication;</p> <p>Analysis and inquiry;</p> <p>Problem solving;</p> <p>Working independently and with others;</p> <p>Professionalism and social responsibility.</p>
<p>Application of knowledge and skills:</p> <p>Graduates who complete the Bachelor of Business Informatics will be self-directed in applying the knowledge and skills obtained to new situations in information systems practice and their ongoing professional development. They will also demonstrate a personal autonomy in their future work in planning and executing a substantial informatics project connecting information systems theory with practice.</p>	<p>Communication;</p> <p>Analysis and inquiry;</p> <p>Problem solving;</p> <p>Working independently and with others;</p> <p>Professionalism and social responsibility.</p>

## Majors

- [Major in Applied Software Engineering \(BSE/BBI\) \(Restricted\) \(MJ0164\)](#)

- [Major in Information Systems \(BSE/BBI\) \(Restricted\) \(MJ0162\)](#)
- [Major in Business Informatics \(BSE/BBI\) \(Restricted\) \(MJ0159\)](#)
- [Major in Software Engineering \(BSE/BBI\) \(Restricted\) \(MJ0163\)](#)

## Awards

Award	Official abbreviation
Bachelor of Software Engineering	BSE
Bachelor of Business Informatics	B BusInformatics

## Honours

Refer to individual courses.

## Related courses

- [Bachelor of Business Informatics \(706AA\)](#)
- [Bachelor of Business Informatics \(Brisbane\) \(706AB\)](#)
- [Bachelor of Software Engineering \(560AA\)](#)

## Enquiries

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

## Download your course guide



# Scholarships

Find the scholarship that's the right fit for you

[Explore Scholarships](#)

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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.