UNIVERSITY OF CANBERRA

Bachelor of Software Engineering/Bachelor of Business Informatics (838AA.3)

Please note these are the 2019 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.
Delivery mode	On campus
Location	Bruce, Canberra
Duration	4.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
UAC code	366123
English language requirements	An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences

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
Delivery mode	On campus
Location	Bruce, Canberra
Duration	4.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
CRICOS code	056138G
English language requirements	An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences

About this course

Design intelligent business systems from the ground up

Explore the design and construction of software systems alongside the latest business information systems when you choose UC's Bachelor of Software Engineering/Bachelor of Business Informatics double degree.

You'll get to pursue your interests while completing an industry-accredited qualification. Recognised by the Australian Computer Society, this cutting-edge course offers the ability to choose subjects from a range of specialty areas, such as computer security, network computing, games development, cloud computing, digital skills, data science and intelligence systems.

Helping you to become an exceptional software engineer will be work placement opportunities with UC's industry partners, and the final year research project that will see you produce and implement a real-world engineering solution for a real business.

Study a Bachelor of Software Engineering/Bachelor of Business Informatics at UC and you will:

- understand the methodology of software systems engineering using analysis and specification methods such as UML, XML, structured and soft systems methodologies
- learn to design and build systems and software using specialist engineering tools
- work within modern development environments that include Windows, Linux, mobile and cloud computing
- gain knowledge in business processes and associated work practices, requirements and information needs
- acquire theoretical knowledge to reflect critically on professional practice in the areas of business analysis, change management and implementation, project management and business strategy, and the planning of information systems
- analyse and evaluate complex problems in a range of different information systems situations
- acquire a range of software engineering and business informatics research frameworks and skills.

Career opportunities

- ICT consultant
- data scientist
- cyber security specialist/forensics
- system architect/technical architect
- user interface designer
- artificial intelligence/machine learning engineer
- web/mobile app developer
- software engineer
- games developer
- IT test engineer
- robotics specialist
- business analyst
- web developer
- IT systems test engineer
- information systems manager
- IT auditor
- project manager

Professional accreditation

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

Admission requirements

Normal UC admission requirements 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

Expand All | Collapse All

Required - 87 credit points as follows

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/BBI) (Restricted) (MJ0164) | 21 credit points

Required - Must pass 21 credit points as follows

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

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

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

Introduction to Computer Engineering (8223) | 3 credit points — Level 1

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

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

Note:

- From 2019 the unit code for Security & Support in IT has changed to 11488.

Required Units - Must pass 9 credit points as follows

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

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

Software Systems Architecture (8745) | 3 credit points — Level 2

- From 2019 the unit code for Introduction to Managers has changed to 11174, for Organisational Performance to 11169 and for Software Systems Architecture to 11491.

Open Electives - 6 credit points as follows

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

Note:

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

Restricted Choice - Must pass 3 credit points from the following

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

Business Decision Making (11009) | 3 credit points — Level 1

- From Semester 1 2018 unit 11009 Business Decision Making replaces 5617 Accounting for Managers.

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

Information Systems in Organisations (6348)

Introduction to Information Technology (4478)

Introduction to Software Engineering (5531)

Professional Practice in IT (7722)

Semester 2

Database Design (5915)

Discrete Mathematics (6698)

Software Technology 1 (4483)

MJ0164 Restricted Choice Unit

Year 2

Semester 1

Designing Human-Computer Interaction (6389)

Introduction to Management (4207)

Software Technology 2 (7170)

System Software (7171)

Semester 2

Security and Support in IT (7167)

Sociology of Technology and Work (7087)

Systems Analysis and Modelling (6365)

Web Design and Programming (7175)

Year 3

Semester 1

Document and Workflow Management (6388)

Object Oriented Software Design (7165)

Organisational Performance (7079)

Semester 2

Information Law (7034)

Software Systems Architecture (8745)

MJ0163 Restricted Choice Unit

Open Elective 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)

Standard Full Time, Semester 1 Commencing (from 2018)

Year 1

Semester 1

Information Systems in Organisations (6348)

Introduction to Computer Engineering (8223)

Introduction to Information Technology (4478)

Professional Practice in IT (7722)

Semester 2

Database Design (5915)

Discrete Mathematics (6698)

Software Technology 1 (4483)

MJ0163 Restricted Choice Unit

Year 2

Semester 1

Designing Human-Computer Interaction (6389)

Introduction to Management (4207)

Software Technology 2 (7170)

System Software (7171)

Semester 2

Security and Support in IT (7167)

Sociology of Technology and Work (7087)

Systems Analysis and Modelling (6365)

Web Design and Programming (7175)

Year 3

Semester 1

Document and Workflow Management (6388)

Object Oriented Software Design (7165)

Organisational Performance (7079)

Semester 2

Information Law (7034)

Software Systems Architecture (8745)

MJ0163 Restricted Choice Unit

Open Elective Unit

Year 4

Semester 1

Business Informatics Internship (8717)

Business Intelligence Systems (7156)

Open Elective Unit

Semester 2

Business Informatics Case Studies (7155)

Information & Communication Technology Project (9785)

Technology and Engineering Management (9789)

Standard Full Time, Semester 1 Commencing (from 2019)

Year 1

Semester 1

Information Systems in Organisations (6348)

Introduction to Computer Engineering (8223)

Introduction to Information Technology (4478)

Professional Practice in IT (7722)

Semester 2

Database Design (5915)

Discrete Mathematics (6698)

Software Technology 1 (4483)

MJ0163 Restricted Choice Unit

Year 2

Semester 1

Designing Human-Computer Interaction (6389)

Introduction to Management (11174)

Software Technology 2 (7170)

System Software (11489)

Semester 2

Security and Support in IT (11488)

Sociology of Technology and Work (11249)

Systems Analysis and Modelling (11486)

Web Design and Programming (7175)

Year 3

Semester 1

Business Decision Making (11009)

Document and Workflow Management (6388)

Object Oriented Software Design (7165)

Organisational Communications, Culture and Change (11169)

Semester 2

Law, Innovation and Technologies (11271)

Software Systems Architecture (11491)

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)

Information & Communication Technology Project (9785)

Technology and Engineering Management (9789)

Course information

Course duration

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

Learning outcomes

Learning outcomes	Related graduate attributes
Communication skills in listening, reading, speaking, explaining, teaching, and writing from and to audiences of different backgrounds and papers of different scopes and levels.	Professionalism and social responsibility; Communication; Problem solving; Working independently and with others.
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.	Analysis and enquiry; Problem solving; Professionalism and social responsibility; Personal attributes: critical thinking, reflective practice, thriving in an environment of change.
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.
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.	Analysis and enquiry; Problem solving; Personal attributes: critical thinking, reflective practice, thriving in an environment of change.
Application of knowledge and skills: 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.	Communication; Analysis and inquiry; Problem solving; Working independently and with others; Professionalism and social responsibility.

Skills: Graduates who complete the Bachelor of Business Informatics will have developed: - 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. - communication skills to transmit and interpret information systems work to technical and business stakeholders.	Communication; Analysis and inquiry; Problem solving; Working independently and with others; Professionalism and social responsibility.
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 research; expertise and skills in contributing new knowledge and skills to the IT fields.	Analysis and enquiry; Problem solving; Personal attributes: critical thinking, reflective practice, thriving in an environment of change.
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.	Analysis and enquiry; Personal attributes: critical thinking, reflective practice, thriving in an environment of change.
Knowledge: 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.	

Majors

- Major in Software Engineering (BSE/BBI) (Restricted) (MJ0163)
- 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)

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 study@canberra.edu.au or Phone 1800 UNI CAN (1800 864 226)
Current and Commencing Students	Please contact the University Student Centre by Email student.centre@canberra.edu.au or Phone 1300 301 727
Prospective International Students	Email international@canberra.edu.au or Phone +61 2 6201 5342

Download your course guide

Scholarships

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Printed on 04, July, 2025

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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.