



## WELCOME

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Whether you are choosing your first career path, want to improve your current situation or are looking to broaden your horizons and study something you love, we're ready to work alongside you to see your goals fulfilled.

USQ staff realise that university study is a big commitment, and know that understanding and supporting your situation is the key to ensuring you reach your goals. At USQ, we will support you before and after the decision to commence study – we don't just lecture at you, we aim to engage with you; empowering you to succeed.

With thousands of students from all walks and stages of life, we are living proof that university can work for you. With flexible program structures and passionate staff, **our goal is the success of each and every student.**

Whether you decide to experience university study at any of our three campuses, by distance education, online or a combination of all three – **you will find the support of a real community, wherever you are.**

### ■ We're right there with you

As a USQ student, you'll be part of a university with an international reputation. Our students enjoy the benefits of small class sizes and the kind of relationship with our lecturers that other universities could only dream of offering.

Staff and students agree that being part of USQ is like being part of a challenging and supportive family. We get to know our students. We not only challenge you to reach your full potential, we work with you to get you there.

USQ programs can accommodate even the most hectic lives – many of our programs offer a three-semester intake, providing you with the option for greater flexibility to start at any time or fast-track your study. **You are in charge of your learning.**

Being a USQ student means you can complete your qualifications wherever you find yourself. So, if you move interstate or across the world, your dreams and goals can move with you! Similarly, if your family or work situation changes, you might decide to lighten your study load or increase to full-time study. It is entirely up to you.

Regardless of whether you study on-campus or via distance education, our focus is to provide you with personalised support that comes from an understanding and respect for each and every one of your goals. That's why we give you a Student Relationship Officer (SRO). Your SRO will be there to support you on your journey, help you through the challenging spots and celebrate your successes! So, no matter where you live, what you study or what your job is – **you will always be connected while you study with USQ.**



## WHY STUDY INFORMATION TECHNOLOGY AT USQ?

We live in a connected world – a fast-paced, rapidly changing world where new challenges are presented every day. Our world needs graduates with the skills to realise the potential of existing technologies, to exploit the opportunities of new technologies, and to help businesses and organisations navigate through this maze. The world needs graduates who have studied a blend of business and IT to equip them for future challenges and opportunities. Our curriculum is constantly evolving to encompass both business and industry-

relevant subjects. USQ's IT 'classrooms' are truly global, with students from many countries studying with us concurrently. USQ's graduates are recognised globally – USQ's graduates have a passport for jobs anywhere in the world.

Our programs are both vocationally and academically oriented, and many have accreditation by professional bodies, such as the Australian Computing Society (ACS).

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## FURTHER INFORMATION

At USQ, we strive to ensure that our students are supported in their decision to study. We're ready to work alongside you to see your goals fulfilled. This brochure has been designed to answer some of your immediate questions, but if you want to learn more about studying Information Technology here at USQ, you can check out the following websites:

- Arts-focused IT: [www.usq.edu.au/arts](http://www.usq.edu.au/arts)
- Business-focused IT: [www.usq.edu.au/business](http://www.usq.edu.au/business)
- Engineering-focused IT: [www.usq.edu.au/engsurv](http://www.usq.edu.au/engsurv)
- Sciences-focused IT: [www.usq.edu.au/sciences](http://www.usq.edu.au/sciences)
- [www.usq.edu.au/future-students](http://www.usq.edu.au/future-students)
- [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)

Alternatively, you can give us a call on **1800 269 500** and let's have a conversation about taking the next step towards your future.



## PROGRAMS

### Bachelor of Creative Arts

**Duration** 3 years full-time, 6 years part-time

**Mode of study** On-campus<sup>1</sup>

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) or equivalent

Entry will also require an interview or audition, depending on the Major. Full details and the application form are available at: [www.usq.edu.au/arts/students/apply/auditions](http://www.usq.edu.au/arts/students/apply/auditions)

#### Program focus

The Bachelor of Creative Arts will provide a unique interdisciplinary environment allowing students to have a fusion of artistic experience and academic study. Creative Media (Multimedia), Music, Theatre and Visual Arts disciplines are linked into one degree program. Students are able to create a flexible palette of choices where they can determine, through consultation with program staff, a combination of specific discipline suites of theory and practice as well as adding another Major from Creative Arts, Humanities or another USQ Faculty to complement their career pathway. For those seeking careers in education, there is also the option to choose a second teaching area.

#### MAJORS

##### Creative Media (Multimedia)

This major focuses on providing a creative environment for students interested in the artistic use of computer driven digital technologies, with a focus on conceptualising, designing and applying self-generated projects sustained upon a firm technological base and professional application. Students will work in the field, in the television studio, sound studios and design and computer labs to release their projects.

The Creative Media (Multimedia) major is designed to reflect the diversity of interdisciplinary knowledge and practices to produce graduates with the skills necessary to facilitate and lead the development of a wide range of multimedia products within the media, film, arts, information technology, educational and games sectors. The major also aims to enhance this practical skill and knowledge with a strong contextual foundation, supported by studies in new media and arts theory.

##### Career opportunities

Graduates from this Major in Creative Arts have career opportunities in media/entertainment industries, television production, animation, video and sound production, web development, computer games development, communication professions and education.

#### OTHER MAJORS

Other Majors within this program which do not include studies in information technology are: Music, Theatre, and Visual Arts. For detailed information on course content of Majors outside of the Information Technology discipline, please refer to: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)

#### Program structure

COURSES TO BE STUDIED	UNITS
Core course	1
<b>Plus</b> 1 x 16-unit Major	16
<b>Plus</b> 1 x 4-unit Minor	4
<b>Plus</b> 3 x Electives	3
<b>TOTAL UNITS TO GRADUATE</b>	<b>24</b>

#### CORE COURSE

CMS1000 Communication and Scholarship

#### Creative Media (Multimedia) (16 units)

BCA3000	BCA Project A
BCA3001	BCA Project B
CIS3001	Object-Oriented Programming with Java
CSC1401	Foundation Programming
CSC3406	Computer Graphics
FET5621	Introduction to Web Publishing
FET5622	Creating Interactive Multimedia
MEA1000	Elements of Multimedia
MEA1002	Creative Editing
MEA1003	Audio Production 1
MEA2000	Scriptwriting for Creative Media
MEA2003	Through the Lens
MEA2004	Animation Production 1
MEA2005	2D and 3D Modelling
MEA3001	Animation Production 2
VIS1100	Elements of Visual Design

<sup>1</sup> Some course are available via distance education.

## Associate Degree of Engineering

**Duration** 2 years full-time, 4 years part-time

**Mode of study** On-campus, distance education

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) or equivalent

It is recommended that applicants should also have satisfactorily completed the subject: Mathematics B (Mathematics A is assumed).

**Program articulation** To: Bachelor of Engineering Technology; Bachelor of Engineering; Bachelor of Engineering and Bachelor of Information Technology

### Program focus

#### MAJORS

##### Computer Systems Engineering

This Major prepares students for a career as an engineering officer. Students learn to apply practical analysis and technical principles to the areas of design and development of computer systems, including both hardware and software.

##### Career opportunities

Graduates of this Major can expect careers in engineering applications of expert systems, hardware interfacing, computer sales, computer engineering technology, computer manufacturing and as computer systems officers.

#### OTHER MAJORS

Other Majors within this program which do not include studies in information technology are: Agricultural Engineering, Civil Engineering, Electrical and Electronic Engineering, Environmental Engineering, Mechanical Engineering, Power Engineering. For detailed information on course content of Majors outside of the Information Technology discipline, please refer to: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)

### Program structure

COURSES TO BE STUDIED	UNITS
1 x 16-unit Major	16
<i>Plus</i> 5 x Practice courses (0 units value)	
<b>TOTAL UNITS TO GRADUATE</b>	<b>16</b>

## COMPUTER SYSTEMS ENGINEERING

### Year 1

CSC1401	Foundation Programming
ELE1301	Computer Engineering
ELE1502	Electronic Circuits
ELE1801	Electrical Technology
ENG1002	Introduction to Engineering and Spatial Science Applications
ENG1101	Introduction to Engineering Problem Solving
ENG1500	Engineering Fundamentals
ENG2102	Engineering Problem Solving and Analysis

### Year 2

CSC2401	Algorithms and Data Structures
ELE2101	Control and Instrumentation
ELE2303	Embedded Systems Design
ELE2501	Electronic Workshop and Production
ENG1100	Introduction to Engineering Design
MAT1101	Discrete Mathematics for Computing
Two Electives – see Electives	

### Electives

Select **two** units from the following:

CSC2402	Object-Oriented Programming in C++
CSC2404	Operating Systems
CSC2408	Software Development Tools
ELE2503	Electronic Systems
ELE2601	Telecommunications Principles
ELE3305	Computer Systems and Communications Protocols
ELE3307	Real Time Systems
ENG2002	Technology, Sustainability and Society
ENG3003	Engineering Management

### Practice courses

ELE1911	Electrical and Electronic Practice A
ELE2912	Electrical and Electronic Practice B
ENG1901	Engineering Practice 1
ENG2909	Work Experience – Associate
ENG2911	AD Capstone Project

## Bachelor of Engineering Technology

<b>Duration</b>	3 years full-time, 6 years part-time
<b>Mode of study</b>	On-campus, distance education
<b>Campus</b>	Toowoomba
<b>Entry requirements</b>	Year 12 English (4 SA) and Mathematics B (4 SA) or equivalent
<b>Program articulation</b>	From: Associate Degree of Engineering; To: Bachelor of Engineering

### Program focus

#### COMPUTER SYSTEMS ENGINEERING

Students learn to apply practical analysis and technical principles to the design and development of computer systems, including both hardware and software. Advanced studies are undertaken in management, computer systems and communications, programming, telecommunications, operating systems, real-time systems and electronic systems.

#### Career opportunities

Career opportunities for graduates of this Major include: engineering applications of expert systems, hardware interfacing computer sales, computer engineering technologist, computer manufacturing and computer systems officers.

#### MAJORS

Other Majors within this program which do not include studies in information technology are: Agricultural, Civil, Electrical and Electronic, Environmental, Infrastructure Management, Mechanical, and Power Engineering. For detailed information about course content of majors outside of the Information Technology discipline, please refer to: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)

### Program structure

COURSES TO BE STUDIED	UNITS
1 x Major	24
<i>Plus</i> 6 x Practice courses (0 units value)	
<b>TOTAL UNITS TO GRADUATE</b>	<b>24</b>

### COMPUTER SYSTEMS ENGINEERING

#### Year 1

CSC1401	Foundation Programming
ELE1301	Computer Engineering
ELE1502	Electronic Circuits
ELE1801	Electrical Technology
ENG1002	Introduction to Engineering and Spatial Science Applications
ENG1101	Introduction to Engineering Problem Solving
ENG2102	Engineering Problem Solving and Analysis
MAT1500	Engineering Mathematics 1

#### Year 2

CSC2401	Algorithms and Data Structures
ELE2101	Control and Instrumentation
ELE2303	Embedded Systems Design
ELE2501	Electronic Workshop and Production
ENG1100	Introduction to Engineering Design
ENG2002	Technology, Sustainability and Society
MAT1101	Discrete Mathematics for Computing
One Elective - see Electives	

#### Year 3

CSC2402	Object-Oriented Programming in C++
CSC2404	Operating Systems
ELE2503	Electronic Systems
ELE2601	Telecommunications Principles
ELE3305	Computer Systems and Communications Protocols
ELE3307	Real Time Systems
ENG3003	Engineering Management
ENG3111	Technology Design Project

#### Electives<sup>1</sup>

Select **one** unit from the following:

CSC2408	Software Development Tools
ELE2103	Linear Systems and Control
ENG4004	Engineering Management Science
MAT1502	Engineering Mathematics 2

#### Practice courses

ELE1911	Electrical and Electronic Practice A
ELE2912	Electrical and Electronic Practice B
ELE3913	Computer Systems Engineering Practice
ELE3916	Software Engineering Team Practice
ENG1901	Engineering Practice 1 <sup>2</sup>
ENG3909	Work Experience - Technologist

- Other Electives may be admissible with the prior approval from the relevant Head of Discipline.
- Students who have a trade certificate and who have been employed in the engineering industry for some time may be able to claim exemption from the course.

## Bachelor of Engineering

**Duration** 4 years full-time, 8 years part-time

**Mode of study** On-campus, distance education

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) and Mathematics B (4 SA) or equivalent; Year 12 Physics (4 SA) is also recommended

**Program articulation** To: Associate Degree of Engineering; Bachelor of Engineering Technology; Bachelor of Engineering and Bachelor of Information Technology

### Program focus

#### MAJORS

##### Computer Systems Engineering

This Major is concerned with the analysis, design and development of computer systems, including both hardware and software. The program is based upon electrical engineering and computer science, and, as such, has a considerable overlap with the Electrical and Electronic Major. Essentially the same treatment of electronics, control and communication systems is common to both, but the Computer Systems Major treats computer and micro-processor hardware and software in much greater detail.

##### Career opportunities

Career opportunities for graduates of this Major include: engineering applications of expert systems, hardware interfacing computer sales, computer engineering technologist, computer manufacturing and computer systems officer.

#### OTHER MAJORS

Other Majors within this program which do not include studies in information technology are: Agricultural Engineering, Civil Engineering, Electrical and Electronic Engineering, Environmental Engineering, Instrumentation and Control Engineering, Mechanical Engineering, Mechatronic Engineering, Power Engineering. For detailed information on course content of Majors outside of the Information Technology discipline, please refer to: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)

### Program structure

COURSES TO BE STUDIED	UNITS
1 x Major	32
<b>Plus</b> 7 x Practice courses (0 units value)	
<b>TOTAL UNITS TO GRADUATE</b>	<b>32</b>

#### COMPUTER SYSTEMS ENGINEERING

##### Year 1

CSC1401	Foundation Programming
ELE1301	Computer Engineering
ELE1502	Electronic Circuits
ELE1801	Electrical Technology
ENG1002	Introduction to Engineering and Spatial Science Applications
ENG1101	Introduction to Engineering Problem Solving
ENG2102	Engineering Problem Solving and Analysis
MAT1500	Engineering Mathematics 1

##### Year 2

CSC2402	Object-Oriented Programming in C++
ELE2103	Linear Systems and Control
ELE2303	Embedded Systems Design
ENG1100	Introduction to Engineering Design
ENG3103	Engineering Problem Solving Computations
MAT1101	Discrete Mathematics for Computing
MAT1502	Engineering Mathematics 2
MAT2500	Engineering Mathematics 3

##### Year 3

ELE2504	Electronic Design and Analysis
ELE2601	Telecommunications Principles
ELE3105	Computer Controlled Systems
ELE3107	Signal Processing
ELE3305	Computer Systems and Communications Protocols
ELE3307	Real Time Systems
ENG2002	Technology, Sustainability and Society
ENG4104	Engineering Problem Solving Simulations

##### Year 4

CSC2401	Algorithms and Data Structures
CSC2404	Operating Systems
CSC2408	Software Development Tools
ENG3003	Engineering Management
ENG4004	Engineering Management Science
ENG4111	Research Project Part 1
ENG4112	Research Project Part 2
One Elective – see Electives	

#### Electives

CSC3406	Computer Graphics
ELE3401	Software Engineering Design Principles
ELE3506	Electronic Measurement
ELE4402	Software Engineering Project Management
ELE4607	Advanced Digital Communications <sup>1</sup>
ENG8001	Engineering and Surveying Research Methodology
MEC4406	Robotics and Machine Vision

#### Practice courses

ELE1911	Electrical and Electronic Practice A
ELE2912	Electrical and Electronic Practice B
ELE3913	Computer Systems Engineering Practice
ELE3915	Electrical and Electronic Practice E
ENG1901	Engineering Practice 1
ENG3902	Professional Practice 1
ENG4903	Professional Practice 2
ENG4909	Work Experience – Professional

### Professional accreditation

A graduate of this program is eligible to apply for membership of Engineers Australia as a graduate Professional Engineer. After further professional development, a graduate member with a Bachelor of Engineering may apply for chartered status as a Professional Engineer and, when granted, may use the post-nominal MIEAust CPEng.

The Bachelor of Engineering program is accredited by Engineers Australia and, through an agreement reached between the professional engineering bodies of other countries (the Washington Accord), is also recognised in the United Kingdom, the United States of America, Canada, Ireland, Hong Kong, New Zealand and South Africa.

1 Offered in even-numbered years only (for example 2012, 2014).



## ■ Bachelor of Information Technology

**Duration** 3 years full-time, 6 years part-time

**Mode of study** On-campus, distance education

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) or equivalent

**Recommended study** Applied Computer Science, and Networking and Security Majors: Mathematics A (4 SA) or equivalent is also recommended

### Program focus

#### MAJORS

##### Applied Computer Science

The Applied Computer Science major equips the graduate with fundamental skills in computer science, applied to the domain of modern web applications and services. Graduates will be well-prepared to solve generic problems in the broad area of computing. They will be ideally placed to design and implement software systems, database structures and applications, and web services and interfaces.

Achievement of the objectives will result in a graduate of high academic and scientific standard, who is capable of competing for employment in a professional area and pursuing career development in government institutions and IT industries.

##### Career opportunities

Career opportunities for graduates of this major include: computer programmer, systems analyst, software developer, project leader, web application developer, web services specialist, it manager, database administrator, database designer.

##### Information Systems Development

The Information Systems Development major includes study in systems analysis and design, databases, Java programming, net programming, enterprise architecture and networks. With the emphasis on practical development of systems and applications pertaining to business contexts, students will be well prepared to begin working in a network management environment.

##### Career opportunities

Career opportunities for graduates of this major include: business information systems developer, business applications designer, enterprise architect, information systems developer, database administrator and database designer.

##### Information Technology Management

The Information Technology Management major is highly focused on Information Systems (IS) as a key strategic enabler of business success and teaches students how to leverage IS to identify and solve business problems. The major serves as a pathway into a variety of rapidly emerging IS career paths where business skills, for example communication, problem-solving and teamwork, are most important. Information Technology Management students develop skills in electronic commerce, systems analysis, database design and implementation, security, network management, service management and enterprise resource systems. Students study leading-edge business packages and tools such as Oracle, SAP and ISO2000 and are provided with the opportunity to pursue professional certification in a number of these areas. Students can study the Information Technology Management major in the Bachelor of Information Technology or the Bachelor of Business.

##### Career opportunities

Career opportunities for graduates include: business analyst, systems analyst, data architect, business process/data modeller, enterprise resource planning (ERP) analyst, computer trainer/support, help desk support, IT manager, IT sales and marketing specialist, change manager, business process engineer, IT project manager, consultant, business continuity (BCM) specialist, IT security specialist, service management.

##### Networking and Security

The Networking and Security major equips the graduate with state-of-the-art skills in network design, network management, security and system development and administration. Graduates will be familiar with problem solving in computer networks, VoIP, video conferencing, network services administration, and the professional skills to apply them in the communication sector, healthcare, government institutions, and IT firms.

Achievement of the objectives will result in a graduate of high academic and scientific standard, who is capable of competing for employment in a professional area and pursuing career development in IT industries and government institutions.

##### Career opportunities

Career opportunities for graduates of this major include: system administrator, systems analyst, web administrator, network analyst, network designer, network administrator, database administrator, database designer.

## Program structure

COURSES TO BE STUDIED	UNITS
Core courses	8
<b>Plus</b> 1 x Major	8
<b>Plus</b> 1 x Second Major	
<b>Or</b> 2 x 4-unit Minors <sup>1</sup>	8
<b>Or</b> 1 x 4-unit Minor <sup>1</sup> <b>Plus</b> 4 x Electives	
<b>Or</b> 8 x Electives <sup>2</sup>	
<b>TOTAL UNITS TO GRADUATE</b>	<b>24</b>

### CORE COURSES

CIS1000	Information Systems Concepts
CIS3002	Business Analysis
CMS1000	Communication and Scholarship
CSC1401	Foundation Programming
CSC2407	Introduction to Software Engineering
<b>PLUS three</b> of the following: <sup>3</sup>	
ACC1101	Accounting for Decision-Making
CSC2401	Algorithms and Data Structures
CSC2406	Web Technology
ECO1000	Economics
ELE1301	Computer Engineering
FIN1101	Introduction to Corporate Finance
LAW1101	Introduction to Law
MAT1100	Foundation Mathematics
MAT1101	Discrete Mathematics for Computing
MGT1000	Organisational Behaviour
MKT1001	Introduction to Marketing
POL1000	Government, Business and Society
STA2300	Data Analysis

### MAJOR COURSES

#### Applied Computer Science

CSC2401	Algorithms and Data Structures
CSC2402	Object-Oriented Programming in C++
CSC2404	Operating Systems
CSC2408	Software Development Tools
CSC3400	Database Systems
CSC3403	Comparative Programming Languages
CSC3412	System and Security Administration
CSC3419	XML and the Web

#### Information Systems Development

CIS1101	Business Online
CIS2000	Systems Analysis and Design
CIS2002	Database Design and Implementation
CIS2003	Component Based Software Development
CIS3001	Object-Oriented Programming with Java
CIS3003	Networks and Distributed Systems
CIS3007	Enterprise Systems Development and Architecture
CIS3010	Oracle Development

#### Information Technology Management

CIS1101	Business Online
CIS2000	Systems Analysis and Design
CIS2002	Database Design and Implementation
CIS2005	Principles of Information Security
CIS3003	Networks and Distributed Systems
CIS3008	Information Technology Service Management
CIS3009	Enterprise Systems in Practice
CIS3011	Information Systems Project
<b>OR</b>	<b>BUS3000</b> Work Integrated Learning

#### Networking and Security

CSC2404	Operating Systems
CSC2408	Software Development Tools
CSC3400	Database Systems
CSC3407	Network Fundamentals and Routing
CSC3412	System and Security Administration
CSC3413	Network Design and Analysis
CSC3420	Mobile Internet Technology
CSC3427	Switching, Wireless and WAN Technologies

## Professional accreditation

This program has professional accreditation with the Australian Computer Society and, through the Seoul Accord, is recognised in other countries.

- 1 Students who wish to take a minor study not listed in the recommended minors as listed in the handbook, must obtain permission from the Program Coordinator.
- 2 Students not completing a double major must select four units of elective courses from courses offered at undergraduate level from Faculty of Business and Law or Faculty of Sciences undergraduate programs or, with the approval of the Program Coordinator, from undergraduate programs offered by other faculties at the University of Southern Queensland.
- 3 Students taking the Applied Computer Science or Networking and Security major must take MAT1101 and CSC2406 as two of the three courses.

## Bachelor of Science

**Duration** 3 years full-time, 6 years part-time

**Mode of study** On-campus, distance education

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) or equivalent

**Recommended study** For Information Technology and Computing Majors, Mathematics A (4 SA) **OR** Mathematics B (4 SA) or equivalent is also recommended.

### Program focus

#### MAJORS

##### Information Technology (12 units)

The Information Technology Major will develop students' skills and knowledge in software development, programming languages, networking and the design and implementation of computer systems and information systems.

##### Career opportunities

Graduates have opportunities in the following careers: application of computing to business, information systems manager, computer sales representative, computer consultant, information manager, computer systems officer, chief information officer, information centre manager, systems analyst/programmer, system development coordinator, computer educator, commercial application developer

##### Computing (8 units)

This Major provides flexibility to meet the needs of students wishing to combine some computing studies with other science disciplines. This Major is of particular value to students who wish to pursue a career in teaching secondary science and computing.

##### Career opportunities

Career opportunities include: computer scientist, computer programmer, computer systems officer, database management system administrator, game developer, local area network manager, network administrator, network designer and specialist, network security analyst, simulator, database/web/network developer, software designer, systems architect, computer systems developer, software developer, applications specialist and software engineer.

#### OTHER MAJORS

Other Majors within this program which do not include studies in information technology are: Human Biology, Mathematics & Statistics, Psychology, Biology, Human Physiology, Mathematics, Environment and Sustainability and Physical Sciences. For detailed information on course content of majors outside of the Information Technology discipline, please refer to: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)

### Program structure

COURSES TO BE STUDIED	UNITS
Core courses	4
<b>Plus</b> 1 x 12-unit Major	12
<b>Plus</b> 1 x 8-unit Major <b>Or</b> 1 x 4-unit Minor <b>Plus</b> 4 x Electives <b>Or</b> 8 x Electives	8
<b>Or</b> 1 x 8-unit Majors	8
<b>Plus</b> 1 x second 8-unit Major <b>Plus</b> 4 x Electives <b>Or</b> 12 x Electives	12
<b>TOTAL UNITS TO GRADUATE</b>	<b>24</b>

**Note:** majors, minors and electives may be chosen from any defined for the bachelor of science, or as approved by the program coordinator, but students cannot take both information technology and computing majors at the same time.

#### CORE COURSES

CMS1100	Communication and Scholarship
CSC1401	Foundation Computing
STA2300	Data Analysis
MAT1101	Discrete Mathematics for Computing

#### MAJOR COURSES

##### Information Technology (12 units)

CIS1000	Information Systems Concepts
CSC2401	Algorithms and Data Structures
CSC2402	Object-Oriented Programming in C++
CSC2408	Software Development Tools
ELE1301	Computer Engineering
<b>PLUS seven</b>	of the following: <sup>1</sup>
CSC2404	Operating Systems
CSC2406	Web Technology
CSC2407	Introduction to Software Engineering
CSC2409	High Performance Numerical Computing
CSC3400	Database Systems
CSC3403	Comparative Programming Languages
CSC3407	Network Fundamentals and Routing
CSC3412	System and Security Administration
CSC3413	Network Design and Analysis
CSC3419	XML and the Web
CSC3420	Mobile Internet Technology
CSC3427	Switching, Wireless and WAN Technologies

##### Computing (8 units)

CIS1000	Information Systems Concepts
CSC2401	Algorithms and Data Structures
CSC2402	Object-Oriented Programming in C++
CSC2408	Software Development Tools
ELE1301	Computer Engineering
<b>PLUS three</b>	of the following:
CSC3400	Database Systems
CSC3403	Comparative Programming Languages
CSC3407	Network Fundamentals and Routing
CSC3412	System and Security Administration
CSC3413	Network Design and Analysis
CSC3419	XML and the Web
CSC3420	Mobile Internet Technology
CSC3427	Switching, Wireless and WAN Technologies

### Professional accreditation

The Information Technology major and the Computing major are accredited by the professional body of the Australian Computer Society.

<sup>1</sup> At least three must be a level 3 course (CSC3xxx).

## COMBINED/DOUBLE DEGREES

### Bachelor of Arts and Bachelor of Science

**Duration** 4 years full-time, 8 years part-time

**Mode of study** On-campus, distance education

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) or equivalent, Year 12 Mathematics A or Mathematics B or equivalent

#### Program focus

Students will complete two Majors from the Bachelor of Arts and one eight course Major from the Bachelor of Science. Students will also need to meet all the Major requirements for both degrees. This combination will require a total of four years of full-time study or up to nine years of part-time study.

#### CAREER OPPORTUNITIES

Graduates from this program may find employment in many fields within the arts and sciences industries.

#### Program structure

COURSES TO BE STUDIED	UNITS
Core courses	4
<b>Plus</b> 2 x Arts Majors (2 x 7-unit Majors)	14
<b>Plus</b> 1 x 8-unit Science Major (Computing) <b>Plus</b> 1 x 4-unit Science Minor	12
<b>Or</b> 1 x 12-unit Science Major (Information Technology)	
<b>Plus</b> 2 x Science Electives	2
<b>TOTAL UNITS TO GRADUATE</b>	<b>32</b>

#### CORE COURSES

CIS1000	Information Systems Concepts
CMS1000	Communication and Scholarship
STA2300	Data Analysis
CSC1401	Foundation Programming

#### ARTS MAJORS

Due to the large number of combinations of Arts Majors available, separate course listings are not printed in this brochure. Only one Arts program includes studies in the Information Technology discipline, the Bachelor of Creative Arts majoring in Creative Media (Multimedia) on page 3 of this brochure. For courses offered within each major for the remaining Arts programs, it is recommended that you refer to the Bachelor of Arts program in the USQ Handbook.

#### SCIENCE MAJORS

Due to the large number of combinations of Science Majors available, separate course listings are not printed in this brochure. Science programs which include studies in the Information Technology discipline include the Bachelor of Information Technology or the Bachelor of Science, majoring in either Information Technology or Computing on pages 7 and 9 respectively of this brochure. For courses offered within each Major for the remaining Science programs, it is recommended that you refer to the Bachelor of Science program in the USQ Handbook.

The USQ Handbook can be viewed at: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook), or contact us via email: [study@usq.edu.au](mailto:study@usq.edu.au)

#### Professional accreditation

The Computing major and Information Technology major under the Bachelor of Science are accredited by the professional body of the Australian Computer Society.



**Luke Ainsworth** Bachelor of Information Technology (Applied Computer Science)

I enjoy the small class sizes at USQ which allow for more personalised interaction with lecturers. The quality and availability of course materials is excellent. I have also really enjoyed being able to apply everything I've learnt in practical classes - it gives a sense of accomplishment and makes me feel like this degree is getting me places. My goal before applying to USQ was to become a Web Designer, and this USQ program has given me all the skills I need to achieve my dream.

## Bachelor of Business and Bachelor of Information Technology

**Duration** 4 years full-time, 8 years part-time

**Mode of study** On-campus, distance education

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) or equivalent

**Recommended study** Applied Computer Science, and Networking and Security majors: Mathematics A (4 SA) or equivalent is also recommended.

### Program focus

This double degree provides students with the opportunity to expand their knowledge in both business and information technology fields. Students must select a major from Business and a major from Information Technology with considerable flexibility regarding the remainder of the program.

#### Business majors include:

- Administrative Management
- Human Resource Management
- International Business
- Management and Leadership
- Marketing
- Supply Chain Management
- Tourism Management.

#### Information Technology Majors include:

- Applied Computer Science
- Information Systems Development
- Information Technology Management
- Networking and Security.

### CAREER OPPORTUNITIES

The double degree provides students with a wide range of employment opportunities, including administrative manager, personnel officer, supply and materials manager, product/brand manager, events coordinator, IS developer, IT manager.

### Program structure

COURSES TO BE STUDIED	UNITS
Core courses	12
<b>Plus</b> 1 x Business Major	8
<b>Plus</b> 1x Information Technology Major	8
<b>Plus</b> 1 x 4-unit Minor <sup>1</sup>	4
<b>Or</b> 4 x Electives	
<b>TOTAL UNITS TO GRADUATE</b>	<b>32</b>

### CORE COURSES

ACC1101	Accounting for Decision-Making
CIS1000	Information Systems Concepts
CIS3002	Business Analysis
CMS1000	Communication and Scholarship
CSC1401	Foundation Programming
CSC2407	Introduction to Software Engineering
ECO1000	Economics
LAW1101	Introduction to Law
MGT1000	Organisational Behaviour
MKT1001	Introduction to Marketing
STA2300	Data Analysis
FIN1101	Introduction to Corporate Finance
<b>OR</b> POL1000	Government, Business and Society

### BUSINESS COURSES

#### Administrative Management

MGT1001	Foundations of Human Resource Management
MGT1200	Business Communication
MGT2203	Project Management Fundamentals
MGT2204	Business Ethics and Governance
MGT3200	Information Management
MGT3201	Applied Administration
MKT3002	Business Strategy in a Global Environment

**PLUS one** of the following:

BUS3000	Work Integrated Learning
CIS3008	Information Technology Service Management
MKT3001	Applied Business Research
MKT3006	Small and Medium Enterprise Development

#### Human Resource Management

MGT1001	Foundations of Human Resource Management
MGT2000	Staffing and Remuneration
MGT2001	Management of Workplace Health and Safety
MGT2002	Managing Organisations
MGT2004	People Development
MGT2006	Employment Relations
MGT3003	Human Resource Performance Management

**PLUS one** of the following:

BUS3000	Work Integrated Learning
<b>OR</b> MGT3002	Leading Organisational Change <sup>2</sup>

#### International Business

INR1000	International Relations in a Globalizing Era
MGT2060	International Business Environment and Operations
MGT3001	Global Management <sup>3</sup>
MKT2002	Global Marketing <sup>4</sup>
MKT3002	Business Strategy in a Global Environment <sup>5</sup>
POL2001	Politics and International Business

**PLUS two** of the following:

AST2002	Contemporary Issues in Asia
BUS3000	Work Integrated Learning
FIN3106	International Finance
INR2002	Contemporary Issues in Asia
INR3000	Australian Foreign Relations
INR3001	Change in Contemporary China

1 – 2 language courses other than English<sup>6</sup>

### Management and Leadership

MGT2002	Managing Organisations
MGT2004	People Development
MGT2007	Leadership
MGT2008	Managing Knowledge
MGT3001	Global Management
MGT3002	Leading Organisational Change
MKT3002	Business Strategy in a Global Environment

**PLUS one** of the following:

BUS3000	Work Integrated Learning
<b>OR</b>	<b>MGT3004</b> Creativity, Innovation and Entrepreneurship

### Marketing

MKT1002	Consumer Behaviour
MKT2001	Promotion Management
MKT2002	Global Marketing
MKT2004	Marketing Channels
MKT2012	Services Marketing
MKT3001	Applied Business Research
MKT3007	Marketing Strategy

**PLUS one** of the following:

BUS3000	Work Integrated Learning
MKT2020	Sports Marketing
MKT3006	Small and Medium Enterprise Development

### Supply Chain Management

MGT2103	Business Logistics
MGT2104	Supply Chain Design
MGT3100	Quality and Performance Management
MGT3102	Supply Chain Operations
MKT2004	Marketing Channels <sup>7</sup>
MKT3001	Applied Business Research <sup>9</sup>
MKT3002	Business Strategy in a Global Environment <sup>8</sup>

**PLUS one** of the following:

BUS3000	Work Integrated Learning
MGT3001	Global Management <sup>10</sup>
MKT2002	Global Marketing <sup>10</sup>

### Tourism Management<sup>11</sup>

MKT2012	Services Marketing
TOU1003	Tourism Management
TOU2008	Ecotourism
TOU2009	Cultural Tourism
TOU3007	Tourism Planning
TOU3010	Event Management

**PLUS two** of the following:

BUS3000	Work Integrated Learning
MKT3001	Applied Business Research
MKT3007	Marketing Strategy

### INFORMATION TECHNOLOGY COURSES

Please refer to the Information Technology major courses under Bachelor of Information Technology on page 8.

### Professional accreditation

The degree will satisfy the academic requirements for membership of the Australian Computer Society, and through the Seoul Accord, is recognised in other countries.

The Human Resource Management Major will satisfy the academic requirements for membership of the Australian Human Resource Institute (AHRI).

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- 1 For a list of appropriate minor studies, please visit: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)
  - 2 This is a capstone course and students should not enrol in it until they have completed at least six of the other courses in this major have been completed.
  - 3 Students who have completed MGT3001 Global Management as part of a Human Resource Management major should substitute INR3000 Australian Foreign Relations for MGT3001 as one of the six compulsory courses in the International Business major.
  - 4 Students who have completed MKT2002 Global Marketing as part of a Marketing major should substitute INR3000 Australian Foreign Relations for MKT2002 as one of the six compulsory courses in the International Business major.
  - 5 Students who have completed MKT3002 Business Strategy in a Global Environment as part of a Management and Leadership, Supply Chain Management or Administrative Management major should substitute INR3000 Australian Foreign Relations for MKT3002 as one of the six compulsory courses in the International Business major.
  - 6 Subject to the approval of the Director of Undergraduate Studies.
  - 7 Students undertaking a Marketing/Supply Chain Management double major should undertake MGT2008 Managing Knowledge as part of the Supply Chain Management major instead of MKT2004 Marketing Channels.
  - 8 Students undertaking an Administrative Management/Supply Chain Management double major or a Management and Leadership/Supply Chain Management double major should undertake MKT3007 Marketing Strategy as part of the Supply Chain Management major instead of MKT3002 Business Strategy in a Global Environment.
  - 9 Students undertaking either a Marketing/Supply Chain Management or Tourism Management/Supply Chain Management double major should undertake MGT2002 Managing Organisations instead of MKT3001 Applied Business Research.
  - 10 Students undertaking either a Human Resource Management/Supply Chain Management or a Management and Leadership/Supply Chain Management double major need to undertake MKT2002 Global Marketing instead of MGT3001 Global Management. Students undertaking a Marketing/Supply Chain Management double major need to undertake MGT3001 Global Management instead of MKT2002 Global Marketing.
  - 11 This major is offered by distance education and on-campus at Springfield.

## Bachelor of Commerce and Bachelor of Information Technology

**Duration** 4 years full-time, 8 years part-time

**Mode of study** On-campus, distance education

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) or equivalent

**Recommended study** Applied Computer Science, and Networking and Security Majors: Mathematics A (4 SA) or equivalent is also recommended.

### Program focus

This double degree provides students with the opportunity to expand their knowledge in both commerce and information technology fields. Students must select a Major from Commerce and a Major from Information Technology with considerable flexibility regarding the remainder of the program.

#### Commerce majors include:

- Accounting
- Business Law
- Finance
- General Commerce
- Sustainable Business
- Sustainable Economics and Policy.

#### Information Technology majors include:

- Applied Computer Science
- Information Systems Development
- Information Technology Management
- Networking and Security.

### CAREER OPPORTUNITIES

The double degree provides students with a wide range of employment opportunities, including: financial analyst, financial planner, investment banker, financial accountant, forensic accountant, stockbroker, small business manager, IS developer, IT manager and IT auditor.

### Program structure

COURSES TO BE STUDIED	UNITS
Core courses	12
<b>Plus</b> 1 x Commerce Major	8
<b>Plus</b> 1 x Information Technology Major	8
<b>Plus</b> 1 x 4-unit Minor	4
<b>Or</b> 4 x Electives	4
<b>TOTAL UNITS TO GRADUATE</b>	<b>32</b>

### CORE COURSES

ACC1101	Accounting for Decision-Making
CIS1000	Information Systems Concepts
CIS3002	Business Analysis
CMS1000	Communication and Scholarship
CSC1401	Foundation Programming
CSC2407	Introduction to Software Engineering
ECO1000	Economics
FIN1101	Introduction to Corporate Finance
LAW1101	Introduction to Law
MGT1000	Organisational Behaviour
STA2300	Data Analysis
MKT1001	Introduction to Marketing
<b>OR</b> POL1000	Government, Business and Society

### COMMERCE COURSES

#### Accounting

ACC1102	Financial Accounting
ACC2113	Management Accounting I
ACC2115	Company Accounting
ACC3101	Accounting Information Systems
ACC3116	Accounting and Society
ACC3118	Auditing
LAW2106	Law of Business Organisations
LAW3130	Revenue Law and Practice

#### Business Law

LAW2104	Business and Consumer Law
LAW2106	Law of Business Organisations
LAW2107	Environmental Law
LAW2301	e-Law
LAW3104	Management Law
LAW3110	Insolvency and Restructuring Law
LAW3130	Revenue Law and Practice
LAW3131	Revenue Law and Practice II

#### Finance

ECO2000	Macroeconomics for Business and Government
FIN1103	Financial Markets
FIN2101	Finance Theory and Applications
FIN2105	Portfolio Management
FIN2109	Managing Financial Institutions
FIN2301	e-Finance
FIN3106	International Finance
FIN2106	Personal Financial Planning
<b>OR</b> FIN2108	Credit Analysis and Lending Management <sup>1</sup>

### General Commerce

Students may select **eight** courses from all courses listed in Bachelor of Commerce majors.

### Sustainable Business

- ECO3030 Sustainable Economies
- LAW2107 Environmental Law
- REN1201 Environmental Studies
- REN3301 Biodiversity and Conservation
- REN3302 Sustainable Resource Use

**PLUS three** of the following:

- ACC3040 Sustainable Business
- ACC3041 Sustainable Accounting and Finance
- BUS3000 Work Integrated Learning
- CIS1101 Business Online
- CIS3008 Information Technology Service Management
- CLI1110 Weather and Climate
- CMS3010 Environmental Discourses: Democracy, Science & Economics
- MGT2002 Managing Organisations
- MGT2008 Managing Knowledge
- MGT3001 Global Management
- MGT3002 Leading Organisational Change
- POL3013 Sustainability and Politics<sup>1</sup>
- TOU2008 Ecotourism
- TOU3007 Tourism Planning

**OR** any other course with the approval of the Director of Undergraduate Studies.

### Sustainable Economics and Policy

- ECO2000 Macroeconomics for Business and Government
- ECO2001 Microeconomics for Business and Government<sup>1</sup>
- ECO3002 Economic Policy Analysis<sup>1</sup>
- ECO3030 Sustainable Economies<sup>1</sup>
- POL2000 Political and Economic Ideas
- POL2001 Politics and International Business
- POL3013 Sustainability and Politics<sup>1</sup>
- REN1201 Environmental Studies

### INFORMATION TECHNOLOGY COURSES

Please refer to the Information Technology major courses under the Bachelor of Information Technology on page 8.

### Professional accreditation

The Accounting major under the Bachelor of Commerce will meet the educational entrance requirements of CPA Australia, the Institute of Chartered Accountants (ICAA) and the National Institute of Accountants (NIA). Students must also complete FIN1101 Introduction to Corporate Finance to meet the requirements of these bodies.

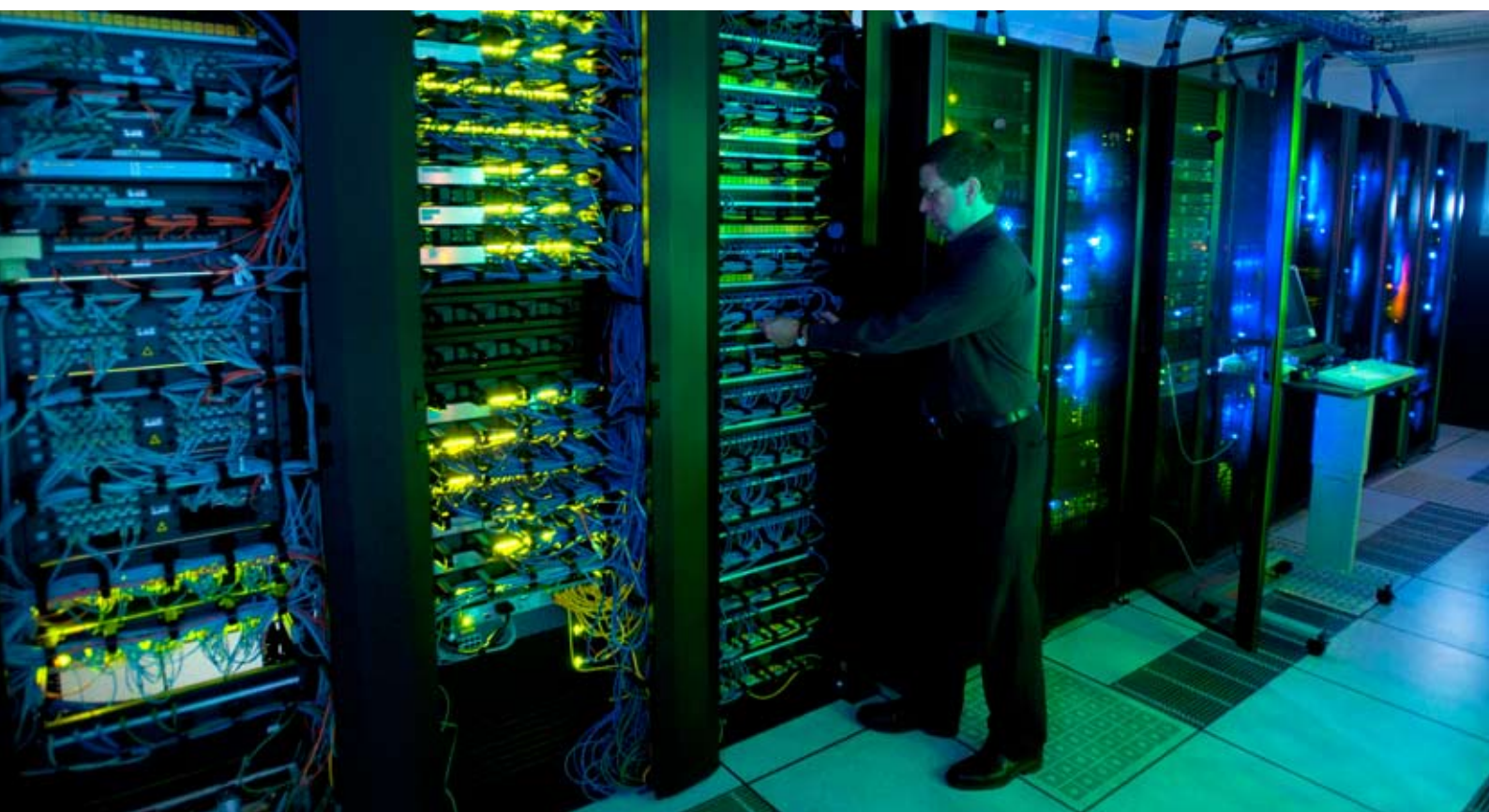
Accounting major students who complete a Finance minor will meet the educational entrance requirements to become an Associate member of the Financial Services Institute of Australia.

The Finance major under the Bachelor of Commerce will meet the educational entrance requirements to become an Associate member of the Financial Services Institute of Australasia (Finsia).

The Bachelor of Information Technology has professional accreditation with the Australian Computer Society, and through the Seoul Accord, is recognised in other countries.

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<sup>1</sup> Not available on-campus.





## Bachelor of Engineering and Bachelor of Information Technology

**Duration** 5 years full-time, 8 years part-time<sup>1</sup>

**Mode of study** On-campus, distance education

**Campus** Toowoomba

**Entry requirements** Year 12 English (4 SA) and Mathematics B (4 SA) or equivalent; Year 12 Physics (4 SA) is also recommended

**Program articulation** From: Associate Degree of Engineering; Bachelor of Engineering Technology, Bachelor of Engineering

### Program focus

This combined degree program will provide students with the knowledge and skills required to design, develop and implement both the hardware and software components of computer systems. The program combines computer systems engineering with applied computer science. The award may be conferred with Honours to high-achieving students.

### CAREER OPPORTUNITIES

Graduates can expect careers as a computer programmer, software/hardware engineer, computer scientist, systems designer and computer systems officer.

### Program structure

COURSES TO BE STUDIED	UNITS
Core courses	38
<b>Plus</b> 2 x Electives	2
<b>Plus</b> 7 x Practice courses (0 units value)	
<b>TOTAL UNITS TO GRADUATE</b>	<b>40</b>

#### Year 1

CSC1401	Foundation Programming
ELE1301	Computer Engineering
ELE1502	Electronic Circuits
ELE1801	Electrical Technology
ENG1002	Introduction to Engineering and Spatial Science Applications
ENG1101	Introduction to Engineering Problem Solving
ENG2102	Engineering Problem Solving and Analysis
MAT1500	Engineering Mathematics 1

#### Year 2

CSC2402	Object-Oriented Programming in C++
ELE2103	Linear Systems and Control
ELE2303	Embedded Systems Design
ENG1100	Introduction to Engineering Design
ENG3103	Engineering Problem Solving Computations
MAT1101	Discrete Mathematics for Computing
MAT1502	Engineering Mathematics 2
MAT2500	Engineering Mathematics 3

#### Year 3

ELE2504	Electronic Design and Analysis
ELE2601	Telecommunications Principles
ELE3105	Computer Controlled Systems
ELE3107	Signal Processing
ELE3305	Computer Systems and Communications Protocols
ELE3307	Real Time Systems
ENG2002	Technology, Sustainability and Society
ENG4104	Engineering Problem Solving Simulations

#### Year 4

CIS3002	Business Analysis
CSC2401	Algorithms and Data Structures
CSC2404	Operating Systems
CSC2406	Web Technology
CSC2407	Introduction to Software Engineering
CSC2408	Software Development Tools
CSC3412	System and Security Administration
One Elective – see Electives	

#### Year 5

CSC3400	Database Systems
CSC3403	Comparative Programming Languages
CSC3419	XML and the Web
ENG3003	Engineering Management
ENG4004	Engineering Management Science
ENG4111	Research Project Part 1
ENG4112	Research Project Part 2 <sup>2</sup>
One Elective – see Electives	

#### Electives

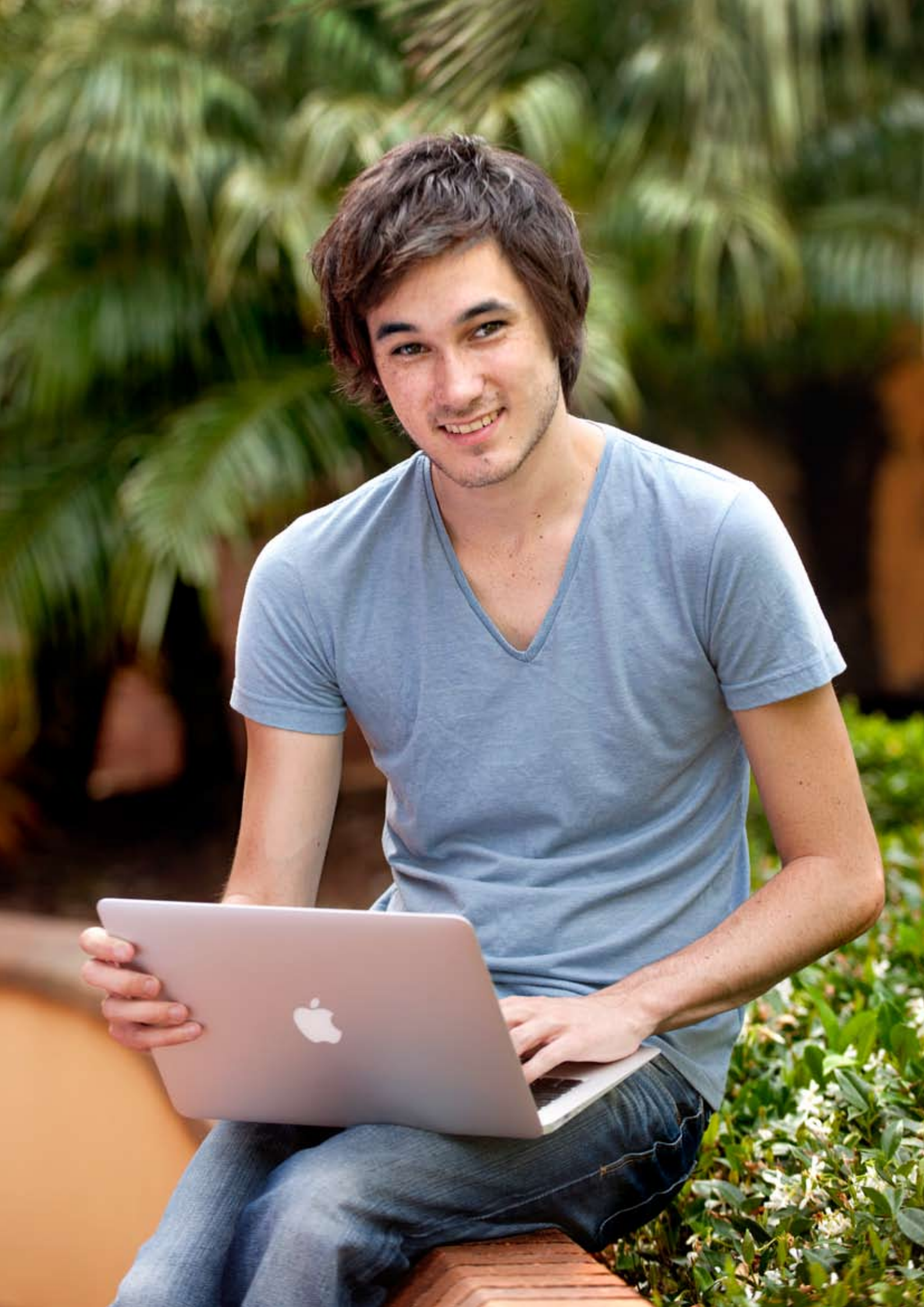
Select **two** units from the following:

CSC3412	System and Security Administration
ELE3401	Software Engineering Design Principles
ELE4402	Software Engineering Project Management
ELE3506	Electronic Measurement
ELE4607	Advanced Digital Communications <sup>3</sup>
ENG8001	Engineering and Surveying Research Methodology
MEC4406	Robotics and Machine Vision

#### Practice courses

ELE1911	Electrical and Electronic Practice A
ELE2912	Electrical and Electronic Practice B
ELE3913	Computer Systems Engineering Practice
ELE3915	Electrical and Electronic Practice E
ENG1901	Engineering Practice 1
ENG3902	Professional Practice 1
ENG4903	Professional Practice 2

- Students who intend studying part-time (i.e. less than six units per year) must be eligible to receive at least 16 units of exemptions. This is necessary to ensure that these students are able to complete the program within the maximum duration of eight years. Contact the Faculty of Engineering and Surveying for details: [engsurv@usq.edu.au](mailto:engsurv@usq.edu.au)
- It is recommended that students in the Bachelor of Engineering and Bachelor of Information Technology should also be enrolled in ENG4903 Professional Practice 2 while undertaking this course.
- Offered in even-numbered years only (for example 2012, 2014).



## WHAT DOES UNIVERSITY STUDY COST?

There are two main costs incurred for university study: program fees and textbook purchase.

### Program fees

Commonwealth supported places are available for Australian citizens, New Zealand citizens (resident in Australia) and Australian permanent residents (resident in Australia). Students are required to pay the Student Contribution Amount associated with these places. The Student Contribution Amount is charged per course/per semester. Additional places which are not supported by the Australian Government may be available; however, these places will incur full tuition fees.

### Fee assistance for undergraduate study

The Higher Education Loan Program (HELP) is a package of loans available to help students pay their Student Contribution Amount or full tuition. It includes:

- HECS-HELP for eligible students paying Student Contribution Amount
- FEE-HELP for eligible students paying full tuition fees
- OS-HELP for eligible students who want to study overseas.

#### HECS-HELP

HECS-HELP is a loan that helps eligible Commonwealth supported students to pay their Student Contribution Amount. It is available to Australian citizens and students holding permanent humanitarian visas only. The Student Contribution Amount varies according to the courses studied at USQ. Eligible students can choose to pay some or all of their Student Contribution Amount up-front, or they can access a HECS-HELP loan to cover some or all of this charge. HECS-HELP enables students to commence repayment via the tax system when their income reaches a certain level.

Students who are eligible for HECS-HELP assistance receive a 20 percent discount on up-front payments of \$500 or more.

To determine whether a program is Commonwealth supported, refer to the program summary in the USQ Handbook: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)

#### FEE-HELP

FEE-HELP is a loan of up to a Government approved balance that helps eligible full-tuition-paying students pay their tuition fees. FEE-HELP is available to Australian citizens and students holding permanent humanitarian visas only. Eligible students may pay some or all of their tuition fees upfront, or they may request a FEE-HELP loan to cover some or all of their tuition fees. Students accessing FEE-HELP for undergraduate study will pay a 20 percent loan fee. Full tuition fees vary according to the discipline studied at USQ.

#### OS-HELP

OS-HELP is a loan that assists eligible Commonwealth supported students undertake some of their undergraduate study overseas. These loans are designed to help students with a range of expenses, such as airfares and accommodation. Australian citizens and students holding permanent humanitarian visas may be eligible for an OS-HELP loan. USQ has a limited number of OS-HELP loans available for eligible students. Each loan of up to \$5523 (indexed annually) is for a six-month study period. Students may access a second loan for a further six-month period under certain circumstances. OS-HELP is not available in the first year or final semester.

For further information on HELP, please refer to the Australian Government website: [www.goingtouni.gov.au](http://www.goingtouni.gov.au) or the USQ fees page at: [www.usq.edu.au/fees](http://www.usq.edu.au/fees)

### International students

If you are not an Australian citizen, a New Zealand citizen or the holder of an Australian permanent resident visa, you are required to pay international student fees. For further information, please contact USQ International, or refer to USQ International's website: [www.usq.edu.au/international](http://www.usq.edu.au/international). HELP loans are not available to international students.

## Textbooks and other expenses

The cost of books, stationery and other supplies will vary, according to the courses you study. Students are usually expected to have their own textbooks. Reference books are available from the library or can be sent via the library post service if you are a distance education student. The USQ Bookshop sells all new textbooks needed for USQ courses. The bookshop also sells software, calculators and stationery. Textbooks cost about \$300 to \$500 a semester for a full-time student if purchased new; second-hand textbooks are available through the Student Guild. Additional costs may apply for some programs, e.g. uniforms and special equipment required for Nursing.

Further information on textbooks expenses can be found at:

<http://bookshop.usq.edu.au>

## Financial assistance

Financial assistance for eligible students is available through Youth Allowance (for students under the age of 25), Austudy and Abstudy. Further information is available from the government-run Centrelink on **13 24 90**.

### 2011 student fees (AUD) per unit<sup>1, 2</sup>

AREA OF STUDY	STUDENT CONTRIBUTION BAND	UPFRONT STUDENT CONTRIBUTION <sup>3</sup> (CSP)	DEFER TO HECS-HELP STUDENT CONTRIBUTION (CSP)	UNDERGRADUATE FULL-FEE-PAYING STUDENT TUITION (N-CSP)
Mathematics	National Priority	435	544	1780
Science	National Priority	435	544	2020
Statistics	National Priority	435	544	1780
Education	1	544	680	1720
Humanities	1	544	680	1720
Linguistics	1	544	680	1720
Nursing	1	544	680	1720
Psychology	1	544	680	1720
Visual and Performing Arts	1	544	680	1720
Computing (Business)	2	766	970	1760
Computing (Science)	2	766	970	1780
Engineering and Surveying	2	766	970	2020
Accounting	3	908	1135	1700
Business	3	908	1135	1700
Commerce	3	908	1135	1700
Economics	3	908	1135	1700
Law	3	908	1135	1620

**CSP** -Commonwealth Supported Place, **N-CSP** - Non-Commonwealth Supported Place

Fees are correct at the time of printing and are subject to change, for current information, phone USQ on **1800 007 252** or visit: [www.usq.edu.au/fees](http://www.usq.edu.au/fees)

<sup>1</sup> These fees can be expected to increase by approximately 2.5% in 2012.

<sup>2</sup> The exact cost will vary depending on which program you do, and which specific courses you do within it.

<sup>3</sup> Upfront student contribution figures include the 20% discount – New Zealand citizens and holders of an Australian permanent resident visa are not eligible for the discount and will pay the full Student Contribution Amount, as indicated in the “deferred to HECS-HELP” column.

## SCHOLARSHIPS

If you are considering attending university in the near future, a USQ scholarship can help you achieve your academic potential by allowing you to concentrate on your studies.

We offer more than 100 scholarships to students who have demonstrated academic excellence, leadership and participation in the wider community. Scholarships are also available to students whose ability to attend university and achieve their full academic potential is affected by financial hardship. There are scholarships for mature-age students who are returning to study; and others for students heading to university from school or TAFE. Students who are half-way through their degree and have demonstrated a high level of academic merit at USQ can also apply for scholarships to help them finish their studies.

### We offer a wide range of scholarships

We offer scholarships for on-campus study, distance study, Aboriginal and Torres Strait Islander students, international students, as well as Government-funded scholarships and Equity scholarships for eligible applicants. We encourage all of our applicants to apply for scholarships; it is important to address the selection criteria fully and provide supporting evidence to give yourself the best chance of success. If you are receiving a benefit from Centrelink you may also be eligible for one of their scholarships. Make sure you contact Centrelink on **13 24 90** and advise them of your current educational situation.

### Application process

The eligibility criteria and application process varies according to the different scholarships. Application details are listed on the website and in the Scholarships Brochure, ensure that you follow the instructions for each scholarship carefully. You can apply for more than one scholarship to improve your chances of receiving support.

#### KEY DATES FOR SCHOLARSHIP APPLICATIONS 2011 – 2012

Applications close (in most cases) 5pm (AEST) Friday 28 October 2011

Notification of outcome (in most cases) End of January 2012

First instalments paid April/May 2012

Second instalments paid (where applicable) September 2012

**Note:** the number of scholarships awarded varies from year to year.

A full list of scholarships, the application procedures and closing dates are available at: [www.usq.edu.au/scholarships](http://www.usq.edu.au/scholarships)

## HOW TO APPLY

### QTAC

In most instances, applications for undergraduate programs should be made through the Queensland Tertiary Admissions Centre (QTAC). QTAC's role is to provide a centralised application system for Queensland tertiary institutions.

#### Current Year 12 students

Domestic applicants for undergraduate programs at USQ should apply via QTAC. Students completing Year 12 in 2011 should apply to QTAC via the *Twelve-to-Tertiary* online application service at: [www.qtac.edu.au](http://www.qtac.edu.au)

#### Non-Year 12 applicants

To gain entry to USQ, it is not necessary to have completed Year 12 or to have any formal academic qualifications.

Alternative entry enables you to demonstrate your capacity to undertake tertiary study on the basis of the following:

- professional and post-secondary qualification
- employment experience
- Personal Competencies Assessment (PCA)
- results in the Special Tertiary Admissions Test (STAT).

You can apply via QTAC's Apply-by-Web service:

[www.qtac.edu.au](http://www.qtac.edu.au)

**Note:** if you are applying via alternative entry, you are required to satisfy minimum entry requirements, such as subject pre-requisites, interviews, or auditions.

### Direct entry

Whilst some applicants have the option to apply directly to USQ (as outlined below), the Bachelor of Education (Technical & Vocational Education) and Bachelor of Vocational Education & Training require **all** applicants to directly apply to USQ for entry.

You can apply online and attach scanned certified copies of any required supporting documentation with your application. For anyone without access to a computer, there are direct entry forms available.

#### Queensland TAFE

If you have completed a Queensland TAFE qualification that is listed under the articulation agreement between Queensland TAFE and USQ, then you can apply directly to USQ and receive credit towards your degree.

To view articulating Queensland TAFE programs, please visit: [www.usq.edu.au/future-students](http://www.usq.edu.au/future-students)

All other graduates of TAFE or registered training providers should apply via QTAC.

## Open Access College (OAC)

OAC was established in 2008 to provide pathway programs to university study. Our aim is to prepare you for entry to degree-level studies at USQ. We offer a range of support services for students from many different backgrounds and provide you with the skills to succeed at university. Upon successful completion of one of our pathway programs, you are guaranteed entry into an undergraduate program.

You can apply directly to OAC at:

[www.usq.edu.au/future-students/am-i-eligible](http://www.usq.edu.au/future-students/am-i-eligible)

## MODES OF STUDY

There are three modes of studying at USQ: on-campus, off-campus via distance education, online, or you may be able to study a combination of all three modes.

**On-campus** study involves attending lectures and tutorials each week on-campus. This mode of study allows you to interact with your peers face-to-face on a regular basis.

**Off-campus** study via distance education is where you are provided with all your study materials throughout a semester by post and online. These materials are divided into comprehensive week-by-week guides, but you have the flexibility to work through these materials at your own pace during the semester.

**Online study** is similar to off-campus study via distance education, but the materials are provided solely via the Internet.

## AVAILABILITY

USQ has programs available in Information Technology at the Toowoomba campus. Some courses may be available via distance education and online. There is a requirement for students in Engineering and Surveying programs to attend compulsory residential schools on-campus in Toowoomba, periodically.

To find out the program availability for your program, visit: [www.usq.edu.au/handbook](http://www.usq.edu.au/handbook)

## IT REQUIREMENTS

USQ makes recommendations about the type of hardware and software best suited to match the University's systems. Compliance with these recommendations will ensure you receive the computing help needed if you are experiencing problems. Recommended hardware and software requirements can be found at:

[www.usq.edu.au/ict/students/standards](http://www.usq.edu.au/ict/students/standards)

## KEY DATES

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### ■ Career expos

#### **THE AGE VCE AND CAREERS EXPO**

Caulfield Racecourse, Station Street, Caulfield, Melbourne  
Friday 6 – Sunday 8 May 2011

[www.vceandcareers.com.au](http://www.vceandcareers.com.au)

#### **THE NATIONAL CAREERS & EMPLOYMENT EXPO**

Brisbane Convention and Exhibition Centre  
Friday 13 – Saturday 14 May 2011

[www.eocexpo.com.au/brisbane.aspx](http://www.eocexpo.com.au/brisbane.aspx)

#### **GOLD COAST CAREERS EXPO**

Gold Coast Convention and Exhibition Centre  
Thursday 19 May 2011

[www.careersevent.com](http://www.careersevent.com)

#### **SUNSHINE COAST DAILY CAREERS EXPO**

University of the Sunshine Coast Sports Stadium,  
Sippy Downs  
Thursday 14 July 2011

[www.careersevent.com](http://www.careersevent.com)

#### **TSXPO (TERTIARY STUDIES EXPO)**

Exhibition Building, RNA Showgrounds, Brisbane  
Saturday 16 – Sunday 17 July 2011

[www.tsxop.org](http://www.tsxop.org)

#### **FRASER COAST CAREERS EXPO**

Venue to be announced  
Thursday 21 July 2011

[www.usq.edu.au/school-liaison/events](http://www.usq.edu.au/school-liaison/events)

#### **TOOWOOMBA CHRONICLE CAREERS EXPO**

Clive Berghofer Recreation Centre, USQ, Toowoomba  
Tuesday 26 July 2011

[www.careersevent.com](http://www.careersevent.com)

#### **IPSWICH CAREERS EXPO**

Bremer TAFE, Bundamba campus  
Wednesday 3 August 2011

[www.usq.edu.au/school-liaison/events](http://www.usq.edu.au/school-liaison/events)

#### **ADULT TERTIARY ENTRY EXPO**

Brisbane Convention and Exhibition Centre  
Saturday 3 September 2011

[www.adulttertiaryentryexpo.edu.au](http://www.adulttertiaryentryexpo.edu.au)

### ■ USQ Open Days

#### **FRASER COAST OPEN DAY**

Sunday 7 August 2011

#### **TOOWOOMBA OPEN DAY**

Sunday 21 August 2011

#### **SPRINGFIELD OPEN DAY**

Sunday 28 August 2011

### ■ Semester start dates

#### **SEMESTER 2 2011**

Monday 18 July 2011

#### **SEMESTER 3 2011**

Monday 14 November 2011

#### **SEMESTER 1 2012**

Monday 27 February 2012

# Information Technology

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## Want to know more?

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1800 269 500 • [study@usq.edu.au](mailto:study@usq.edu.au)

[www.usq.edu.au/future-students](http://www.usq.edu.au/future-students)

The information contained in this brochure is correct at time of printing.  
However, you should check details are still correct before enrolling.

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USQ GRAPHICS (10-1258)