

Bachelor of Commerce and Bachelor of Science (BCSC) - BCom BSci

This program is offered only to continuing students. No new admissions will be accepted. Students who are interested in this area of study should consider the [Bachelor of Business and Bachelor of Science](#) which will be offered from semester 1 2017.

Programs at USQ regularly undergo a comprehensive re-accreditation process to assure their relevance and quality. This program is currently being re-accredited and, as a consequence, is likely to undergo some changes. Full details will be made available when it is approved. If you have any questions, please [contact us](#).

	On-campus	External
Start:	No new admissions	No new admissions
Campus:	Toowoomba	—
Fees:	Commonwealth supported place Domestic full fee paying place International full fee paying place	Commonwealth supported place Domestic full fee paying place International full fee paying place
Standard duration:	4 years full-time, up to 8 years part-time	

Contact us

Current students
Ask a question Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email usq.support@usq.edu.au

Professional accreditation

Accounting major graduates will meet the educational entrance requirements of [CPA Australia](#) and [Chartered Accountants Australia and New Zealand \(CAANZ\)](#). This provides Associate membership of CPA Australia, eligibility to study the CPA Australia professional exams and eligibility to study the CAANZ professional exams.

Successful completion of the Accounting major can qualify students for exemptions from the Fundamental level (9 papers) of the [Association of Chartered Certified Accountants \(ACCA\)](#) exams.

Graduates will meet the educational entrance requirements to become a member of the [Financial Services Institute of Australasia \(Finsia\)](#).

The Computing major, Information Technology major and Information Technology Management major are accredited at professional level by the [Australian Computer Society](#) and, through the Seoul Accord, is recognised in other countries.

Program aims

This program will provide students with an opportunity to attain in minimum time two qualifications, one in commerce and one in science. It will provide graduates with skills that are in demand in at least two important commercial sectors.

Program objectives

On successful completion of the Bachelor of Commerce and Bachelor of Science double degree program, graduates need to meet the program objectives of both disciplines.

On completion of the Bachelor of Commerce program, graduates will be able to:

- demonstrate strong communication skills
- identify, analyse and solve problems in different decision contexts
- think constructively and logically
- make effective and creative use of modern technologies
- acquire specific knowledge and skills relevant to their major study areas
- demonstrate an understanding of the principles of accounting, finance, economics and business law
- satisfy educational entrance requirement of relevant professional bodies.

On completion of the Bachelor of Science program, graduates will:

- possess more than a basic competence in at least one chosen discipline
- possess skills in drawing upon the growing content of knowledge in these disciplines
- understand the principles underlying these disciplines
- be capable of applying these principles to the solving of problems, particularly practical problems
- be capable of working with people trained in other disciplines towards the solution of common problems
- be motivated to sustain adaptive, independent learning
- be aware of the social, moral and legal responsibilities of professional scientists
- be skilled in the communication of ideas and concepts.

Admission requirements

To be eligible for admission, applicants must satisfy the following requirements:

- Year 12 English [4,SA] or equivalent.
- Mathematics B [4,SA]
- Admission to the Bachelor of Commerce and Bachelor of Science is in accordance with [University's admissions policy](#) for undergraduate programs.

All students are required to satisfy the applicable [English language requirements](#).

If students do not meet the English language requirements they may apply to study a University-approved [English language program](#). On successful completion of the English language program, students may be admitted to an award program.

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of a students' higher education and students pay a [student contribution amount](#), which varies depending on the courses undertaken. Students are able to calculate the fees for a particular course via the [Course Fee Schedules](#).

Commonwealth Supported students may be eligible to defer their fees through a Government loan called [HECS-HELP](#).

Domestic full fee paying place

Domestic full fee paying places are funded entirely through the full fees paid by the student. Full fees vary depending on the courses that are taken. Students are able to calculate the fees for a particular course via the [Course Fee Schedule](#)

Domestic full fee paying students may be eligible to defer their fees through a Government loan called [FEE-HELP](#) provided they meet the residency and citizenship requirements.

Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who will be resident outside Australia for the duration of their program pay full tuition fees and are not eligible for [FEE-Help](#).

International full fee paying place

International students pay full fees. Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. Students are able to calculate the fees for a particular course via the [Course Fee Schedules](#).

Program structure

The Bachelor of Commerce and Bachelor of Science double degree consists of 32 courses as follows:

Area of study	Total units
Core courses	11 units
Commerce major	one 8–unit major
Science major	one 8–unit major and 5 electives; or one 12–unit major and 1 elective
Total	32 units

Program completion requirements

To be eligible to graduate with two awards, the Bachelor Commerce and the Bachelor of Science, students must have successfully completed 32 units in total. This includes the 11 core units, the 8 commerce major units, 8 or 12 science major units depending on the science major chosen plus elective units as applicable to bring the total to 32 units.

Required time limits

Students have a maximum of 9 years to complete this program.

Core courses

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
ACC1101 Accounting for Decision-Making	1, 2, 3	1, 2	1, 2
CIS1000 Information Systems Concepts	1, 2, 3	1, 2	1, 2, 3
CMS1000 Communication and Scholarship	1, 2, 3	1, 2	1
CSC1401 Foundation Programming	1, 2, 3	1, 2	
ECO1000 Economics	1, 2, 3	1	2, 3
FIN1101 Introduction to Corporate Finance	1, 2, 3	1	1, 2
LAW1101	1, 2, 3	1, 2	1, 2
MAT1101 Discrete Mathematics for Computing	1	1	
MGT1000 Organisational Behaviour	1, 2, 3	1	1
STA2300	1, 2, 3	1, 2	2

Select one of the following courses:*			
MKT1001 Introduction to Marketing	1, 2, 3	1	1
POL1000 Government, Business and Society	1, 2	1	1

Footnotes

* Students undertaking the Business Economics major should select [POL1000](#).

Accounting major

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
Level 1			
ACC1102 Financial Accounting	1, 2, 3	1, 2	2
Level 2			
ACC2113 Management Accounting I	1, 2	2	2
ACC2115 Company Accounting (Formerly ACC3115)	1, 2, 3	2	1
LAW2106	2, 3	2	2
Level 3			
ACC3101 Accounting Information Systems	1, 2	2	2
ACC3116 Accounting and Society	1, 2	1	1
ACC3118 Auditing	1, 2	1	1
LAW3130 Revenue Law and Practice A	1, 2, 3	1	1

Business Economics major

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
Level 1			
FIN1103 Financial Markets	2, 3	2	2
Level 2			
ECO2000 The Macro-economy and Business	2		
ECO2001 Business Economics	1		
POL2001 Politics and International Business	2	2	
Level 3			

ECO3002 Economic Policy Analysis	2		
ECO3010 International Economics and Trade	1		
ECO3020 Behavioural Economics	1		
ECO3030 Sustainable Economies	2		

Business Law major

Not all courses are available on-campus.

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
Level 2			
LAW2104	1		
LAW2106	2, 3	2	2
LAW2107 Environmental Law	1		1
Plus one of the following two courses:			
LAW3404 Financial Service Law			
LAW3444 Competition and Consumer Law			
Level 3			
LAW3110 Insolvency and Restructuring Law	2		
LAW3130 Revenue Law and Practice A	1, 2, 3	1	1
LAW3131 Revenue Law and Practice B	2		
Select one of the following courses:			
MGT2204 Business Ethics and Governance	1, 3	1	
MGT3001 Global Management	1, 3	1	1
POL2001 Politics and International Business	2	2	
PWE3000 Professional Work Experience ~	2, 3		

Footnotes

~ [PWE3000 Professional Work Experience](#) is not available to international students regardless of location or mode of study as it is an elective course. Australian regulations do not allow an elective work-based training course that is not a mandatory program requirement to be offered to international students.

Finance major

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
Level 1			

FIN1103 Financial Markets	2, 3	2	2
Level 2			
FIN2105 Portfolio Management	2	2	2
FIN2108 Credit Analysis and Lending Management	2	2	2
FIN2302 Financial Economics	1	1	1
Select one of the following two courses:			
ECO2000 The Macro-economy and Business	2		
FIN2106 Personal Financial Planning * (Formerly FIN1106)	1	1	1
Level 3			
FIN3101 Finance Theory and Applications (Formerly FIN2101)	2	2	
FIN3106 International Finance	1	1	
FIN3109 Managing Financial Institutions (Formerly FIN2109)	1	1	1

Footnotes

* [FIN2106 Personal Financial Planning](#) is not recommended for international students.

General Commerce major

Students may select 8 courses from all courses listed in Bachelor of Commerce majors. Please note: this major may only be taken as a first major by Bachelor of Commerce students.

To discuss which courses to study within the General Commerce major, please [contact USQ](#). All course pre-requisites must be met, and all courses chosen are subject to the approval of the Program Coordinator.

Information Technology Management major

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
CIS1101 Business Online	2, 3	2	2
CIS2000 Systems Analysis and Design	1, 3	1	1
CIS2002	1, 3	1	1
CIS2005 Principles of Information Security	2	2	2
CIS3002 Agile Methods	1	1	1
CIS3008 Information Technology Service Management	1	1	1
CIS3009 Enterprise Systems in Practice	2, 3	2	2
CIS3011	2	2	

Sustainable Business major

Not all courses are available on-campus.

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
Compulsory courses:			
ECO3030 Sustainable Economies	2		
LAW2107 Environmental Law	1		1
REN1201 Environmental Studies	1	1	1
REN3301 Biodiversity and Conservation	2	2	
REN3302 Sustainable Resource Use	2	2	2
Select three of the following courses:			
ACC2113 Management Accounting I	1		
ECO3002 Economic Policy Analysis	1		
CIS1101 Business Online	2, 3	2	2
CIS3008 Information Technology Service Management	1	1	1
CLI1110 Weather and Climate	1	1	
SOC3001 Global Conflict Communication	2	2	
MGT2002 Perspectives of Organisation	2, 3	2	2
MGT2008 Knowledge Management and Organisational Learning	1		
MGT3001 Global Management	1, 3	1	1
MGT3002 Managing Change	2	2	2
PWE3000 Professional Work Experience~	2, 3		
TOU2008 Ecotourism	1		
or any other course with the approval of the Faculty of Business, Education, Law and Arts.			

Footnotes

~ [PWE3000 Professional Work Experience](#) is not available to international students regardless of location or mode of study as it is an elective course. Australian regulations do not allow an elective work-based training course that is not a mandatory program requirement to be offered to international students.

Computing major

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus
ELE1301 Computer Engineering	1	1
CSC2401 Algorithms and Data Structures	2	2

CSC2402 Object-Oriented Programming in C++	1	1
CSC2408 Software Development Tools	1, 2	1, 2
Select four of the following courses:		
CSC3400 Database Systems	1	1
CSC3403 Comparative Programming Languages	1	1
CSC3407 Network Fundamentals and Routing	1	1
CSC3412 System and Security Administration	1	1
CSC3413 Network Design and Analysis	2	2
CSC3420 Mobile Internet Technology	1	1
CSC3427 Switching, Wireless and WAN Technologies	2	2

Environment and Sustainability major

Some courses of this major are already included within the Sustainable Business or Sustainable Economics and Policy majors. If those commerce majors are chosen, additional elective courses are to be selected from Business and Commerce courses with permission from the Faculty of Business, Education, Law and Arts.

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
REN1201 Environmental Studies	1	1	1
REN2200 Ecology for Sustainability	1	1	
REN3301 Biodiversity and Conservation	2	2	
REN3302 Sustainable Resource Use	2	2	2
CLI1110 Weather and Climate	1	1	
CLI2201 Climate Change and Variability	2	2	
CLI3301 Climate and Environment Risk Assessment	1	1	
CLI3302 Adaptation to Climate Change	2	2	

Information Technology major

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus
ELE1301 Computer Engineering	1	1
CSC2401 Algorithms and Data Structures	2	2
CSC2402 Object-Oriented Programming in C++	1	1
CSC2408 Software Development Tools	1, 2	1, 2
Select eight of the following courses, with at least three being level 3 courses:		
CSC2404 Operating Systems	2	2
CSC2406 Web Technology 1	2	2
CSC2407 Introduction to Software Engineering	2	2
CSC3400 Database Systems	1	1
CSC3403 Comparative Programming Languages	1	1
CSC3407 Network Fundamentals and Routing	1	1
CSC3412 System and Security Administration	1	1
CSC3413 Network Design and Analysis	2	2
CSC3420 Mobile Internet Technology	1	1

CSC3427 Switching, Wireless and WAN Technologies	2	2
STA3200 Multivariate Statistical Methods	1	

Mathematics major

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus
MAT2409 High Performance Numerical Computing	1	1
MAT1102 Algebra and Calculus I	1	1
MAT2200 Operations Research 1	2	2
MAT2100 Algebra and Calculus II	2	2
MAT3103 Mathematical Modelling and Dynamical Systems *	2	2
MAT3104 Mathematical Modelling in Financial Economics ^	2	2
MAT3105 Harmony of Partial Differential Equations *	1	1
MAT3201 Operations Research 2 ^	1	1

Footnotes

* External offered yearly and on-campus offered in even-numbered years.

^ External offered yearly and on-campus offered in odd-numbered years.

Mathematics and Statistics major

Course	Semester of offer Distance/Online	Semester of offer Toowoomba campus
MAT2409 High Performance Numerical Computing	1	1
MAT1102 Algebra and Calculus I	1	1
MAT2200 Operations Research 1	2	2
MAT2100 Algebra and Calculus II	2	2
MAT3103 Mathematical Modelling and Dynamical Systems *	2	2
MAT3104 Mathematical Modelling in Financial Economics ^	2	2
MAT3105 Harmony of Partial Differential Equations *	1	1
MAT3201 Operations Research 2 ^	1	1
STA2301 Distribution Theory	1	1
STA2302 Statistical Inference	2	2
STA3300 Experimental Design	1	1
STA3301 Statistical Models	2	2

Footnotes

* External offered yearly and on-campus offered in even-numbered years.

^ External offered yearly and on-campus offered in odd-numbered years.

Wine Science major

This is an 8-unit major. Along with the core courses prescribed above, students must take the following 8 courses. Note: students must complete any pre-requisite courses as noted prior to undertaking courses in this major as detailed below. These pre-requisite courses must be undertaken as electives.

Courses	Semester of offer Distance/Online	Semester of offer Toowoomba Campus
WIN1101 Grape and Wine Production	1	1
WIN2200 Viticultural and Winemaking Practice		1
WIN2215 Wine Biochemistry and Microbiology	2	
WIN2210 Viticultural Principles and Production	2	
WIN2220 Wine Production	2	
WIN3310 Wine Sensory Analysis	1	
WIN3304 Viticultural and Winemaking Practice 2		3
SCI3302 Industry Placement		1, 2, 3
To meet the prerequisite for this major, the 5 units of electives must include the following 4 courses:		
CHE1110 Chemistry 1	1	1
CHE2120 Chemistry 2	2	2
BIO2202 Plant Physiology	2	2
and one of the following two courses:		
BIO1101 Biology 1	1	1
BIO1100	2	2

IT requirements

For information technology requirements please refer to the [minimum computing standards](#).

Other program requirements

Students must maintain good standing in this program. Please refer to the [Academic Standing, Progression and Exclusion Procedure](#).

Articulation

This program does not articulate with any other program.

Exit points

Students may, upon application, exit from the Bachelor of Commerce and Bachelor of Science with a lesser qualification, provided that they have met all the requirements of that lesser qualification.

Credit

Candidates for admission to the Bachelor of Commerce and Bachelor of Science may be eligible for up to 16 units of credit based on successful completion of relevant, equivalent undergraduate study from a recognised university.

Note: where credit is granted, maximum and minimum duration will be adjusted in the same proportion as credit, for example, where the maximum of 16 units of credit is approved, maximum time will be 4.5 years and minimum time will be four semesters.

Recommended enrolment pattern

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
ACC1101 Accounting for Decision-Making	1	1			1	1	
MAT1101 Discrete Mathematics for Computing	1	1			1	1	
FIN1101 Introduction to Corporate Finance	1	1			2	1	
CSC1401 Foundation Programming	1	1			2	1	
CMS1000 Communication and Scholarship	1	2			1	2	Enrolment is not permitted in CMS1000 if MGT1200 has been previously completed.
CIS1000 Information Systems Concepts	1	2			1	2	
LAW1101	1	2			2	2	
STA2300	1	2			2	2	
Course 1 Commerce major	2	1			3	1	
MGT1000 Organisational Behaviour	2	1			3	1	
Select one of the following two courses:							
MKT1001 Introduction to Marketing	2	1			4	1	
POL1000 Government, Business and Society							
ECO1000 Economics	2	1			4	1	
Course 1 Science major	2	2			3	2	
Course 2 Commerce major	2	2			3	2	
Course 2 Science major	2	2			4	2	
Course 3 Commerce major	2	2			4	2	
Course 3 Science major	3	1			5	1	
Course 4 Commerce major	3	1			5	1	
Course 4 Science major	3	1			6	1	
Course 5 Commerce major	3	1			6	1	
Course 5 Science major	3	2			5	2	
Course 6 Commerce major	3	2			5	2	
Course 6 Science major	3	2			6	2	
Course 7 Commerce major	3	2			6	2	
Course 7 Science major	4	1			7	1	
Course 8 Commerce major	4	1			7	1	
Course 8 Science major	4	1			8	1	
Course 9 Science major/Elective	4	1			8	1	
Course 10 Science major/Elective	4	2			7	2	
Course 11 Science major/Elective	4	2			7	2	
Course 12 Science major/Elective	4	2			8	2	
Elective	4	2			8	2	