



## Bachelor of Advanced Computer Science (Honours) (Domestic students)

<b>Program code</b> 1657	<b>Entry requirements</b> 80.00	<b>Prerequisites</b> NIL
<b>Available at</b> Gold Coast Campus, Online	ATAR/RANK 2024 ( <a href="#">more</a> )	<b>Assumed knowledge</b> Any General or Applied English subject (Units 3 and 4, C)
<b>Duration</b> 4 years full-time 8 years part-time	<b>Commencing in</b> Trimester 1 and Trimester 2	Mathematical Methods (Units 3 and 4, C)
<b>Credit points</b> 320		
<b>Indicative fee</b> \$8,000.00* per year ( <a href="#">more</a> ) * 2024 indicative annual CSP fee		

### Degree requirements: Students who started Trimester 2 - 2024

For Domestic students and those International students not required to complete the English Language Enhancement course

For the award of *Bachelor Advanced of Computer Science (Honours) (BAdvCompSc(hons))*, you must successfully complete 320 credit points, made up of the core courses AND

- 180 credit points for the core module
- 60 credit points for the major module;
- 80 credit points for the flexible module comprising a second major and/or electives;

#### Other program requirements

You must successfully complete:

- no more than 120 credit points of Level 1 courses (the first digit of a course code denotes the level);
- at least 60 credit points of Level 3 courses or higher.

#### Exit point

To be eligible to exit the Bachelor of Advanced Computer Science (Honours) program with the Bachelor of Computer Science, you must acquire 240 credit points as prescribed below:

- at least 200 credit points from the Bachelor Computer Science (Honours) course list for any major/s including all first year level and second year level core courses;
- no more than 40 credit points of listed electives;
- at least 60 credit points of courses at third year level or higher;
- no more than 100 credit points of courses at first year level.

To exit, you should apply for a program transfer.

#### Honours

##### Classification of Honours

This degree with Honours may be awarded in the following classes:

- Class I Honours
- Class IIA Honours
- Class IIB Honours

- Class III Honours

The class of Honours to be awarded to each student in this degree will be determined on the basis of the GPA achieved for the 80 credit points of nominated courses and a minimum percentage for the Dissertation as outlined in the **Dissertation Management Procedure**.

Students who do not achieve Class III Honours will be awarded a Bachelor of Computer Science.

### Australian Qualifications Framework (AQF) Level and Type

The **Australian Qualifications Framework (AQF)** is the national policy for regulated qualifications in Australian education and training. This qualification is accredited as an AQF Level 8 - Bachelor Honours Degree.

### English Language Enhancement

Domestic students enrolled in this program whose first language is not English may complete the following **English Language Enhancement Course** as an elective.

- **5903LHS Language and Communication for Sciences**

Students whose first language is English are not permitted to undertake this course.

## Program learning outcomes

### Program learning outcomes

**Program Learning Outcomes** communicate to the community the value of the Griffith educational experience as benchmarked against national qualification standards.

**Program Learning Outcomes for this award** describe the knowledge, skills and the application of knowledge and skills you will acquire through studying the Griffith program of your choice.

## Course list: Students starting Trimester 2 - 2024

**Course offering information in program structures is a guide only. Please check the actual offering information in the Course Catalogue.**

Students must check the prerequisite and incompatible requirements before selecting any course within this program.

### English Language Enhancement course

Students required to undertake the English Language Enhancement course must complete the following course in their first trimester of study in place of a foundation course.

Trimester	Course code	Requirement	Course title	CP
Tri 1,2 or 3	<b>5903LHS</b>	English Enhancement	Language and Communication for Sciences	10

### Core module

#### Year 1

Please note: Students entering the program WITHOUT the assumed knowledge of Maths B or equivalent must complete 1017SCG in their first year of study.

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	<b>1004ICT</b>		Professional ICT Practice	10
Tri 1,3	<b>1007ICT</b>		Computer Systems and Cyber Security	10
Tri 1,2	<b>1811ICT</b>		Programming Principles	10
Tri 2	<b>1011ICT</b>		Applied Computing	10
Tri 2	<b>1808ICT</b>		Discrete Structures	10
Tri 2	<b>1013ICT</b>		Mathematics for Computer Science	10
Tri 1,2 or 3			Flexible module courses (see Note 1 and Note 2)	20

Note 1: Students who are required to complete 5903LHS must complete this course in their flexible module. Students who are not required to complete 5903LHS are not allowed to select 5903LHS.

Note 2: The flexible module comprises a second major and/or electives.

## Year 2

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	280ICT		Computing Algorithms	10
Tri 2	2810ICT		Software Technologies	10
Tri 1,2,3			Major module courses	20
Tri 1,2,3			Flexible module courses (see Note 1)	40

Note 1: The flexible module comprises a second major and/or electives.

Eligibility to progress to the Bachelor of Advanced Computer Science (Honours) (1657) after successfully complete 80 credit points will be subject to the following criteria:

- achievement of a minimum Grade Point Average (GPA) of 6.0 for all coursework.

## Year 3

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	3820ICT_P1		Work Integrated Learning Part 1 (capstone course)	10
			<b>AND</b>	
Tri 2	3820ICT_P2		Work Integrated Learning Part 2 (capstone course)	10
			<b>OR</b>	
Tri 1,2	3821ICT		Work Integrated Learning - Single Project	20
			<b>OR</b>	
Tri 1,2	3822ICT		Work Integrated Learning - Placement	20
Tri 1,2 or 3			Major module courses	40
Tri 1,2 or 3			Flexible module courses (see Note 1)	20

Note 1: The flexible module comprises a second major and/or electives.

## Year 4

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	6112ICT		Research Methods in IT	10
Tri 1,2	6190ICT_P1		Honours Thesis	10
Tri 1,2	6190ICT_P2		Honours Thesis	10
Tri 1,2	6190ICT_P3		Honours Thesis	10
Tri 1,2	6190ICT_P4		Honours Thesis	10
Tri 1,2 or 3	6001ICT		Advanced Topics in Computer Science A	10
Tri 1,2 or 3	6002ICT		Advanced Topics in Computer Science B	10
Tri 1,2 or 3	6003ICT		Advanced Topics in Computer Science C	10

## Flexible Module

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1			Electives	80
			<b>OR</b>	
Tri 1,2 or 3			Second major	60
			<b>AND</b>	
Tri 1,2 or 3			Electives	20

## Majors (2 available)

### Algorithms and Computing

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2800ICT		Object Oriented Programming	10
Tri 1	2802ICT		Intelligent Systems	10
Tri 2	3825ICT		Theory of Computing	10
Tri 1	3008ICT		Deep Learning (offered from 2026)	10
Tri 2	3005ICT		Distributed Programming (offered from 2026)	10
Tri 1	3805ICT		Advanced Algorithms	10

## Data Science and Artificial Intelligence

### Data Science & Artificial Intelligence

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 2	2030ICT		Introduction to Big Data Analytics	10
Tri 1	2802ICT		Intelligent Systems	10
Tri 1	3806ICT		Robotics, Agents and Reasoning	10
Tri 1	3008ICT		Deep Learning (offered from 2026)	10
Tri 2	3006ICT		Robotics and Computer Vision (offered from 2026)	10
Tri 2	3804ICT		Data Mining	10

## Electives (1 available)

### Electives

You may select courses for your flexible module from the list below or any **Undergraduate free-choice elective/s** offered across the University provided prerequisites are met.

ICT related electives are primarily available in the BCompSci (for single major students) and the BInfTech (shown in the following table). If you require guidance, please liaise with your Program Director.

Students who do not have the assumed mathematical knowledge of Maths B or equivalent must take 1017SCG Foundation Mathematics as an elective in the first year of their program.

Trimester	Course code	Requirement	Course title	CP
Tri 2	3702ICT		Games Development	10
Tri 2	2809ICT		Computer Networking Essentials	10
Tri 1	1118ICT		Introduction to Cyber Security	10
Tri 2	2808ICT		Secure Development Operations	10
Tri 2	3004ICT		Web Application Development (offered from 2026)	10
Tri 1	3701ICT		Mobile Application Development	10
Tri 1	3809ICT		Ethical Hacking	10
Tri 2	3811ICT		Advanced Network Architectures	10
Tri 2	3906ICT		Digital Forensics	10
Tri 2	3813ICT		Software Frameworks	10
Tri 2	3707ICT		Home Automation and Robotics	10

You must ensure that you complete a minimum of 60 credit points of Level 3 courses (or higher) and the maximum of level 1 courses (100 credit points) is not exceeded in your entire program.