Al for Law Enforcement & Community Safety

TUESDAY 12 JUNE 12:00PM AEDT

You will automatically be muted, however you can still use the chat box throughout the event. Please use the Q&A window to ask questions.



Please be courteous and only use respectful language.









AI FOR LAW ENFORCEMENT AND COMMUNITY SAFETY

FACULTY OF INFORMATION TECHNOLOGY

Presented by

Campbell Wilson, Associate Professor, Department of Data Science and Artificial Intelligence and AiLECS Lab Co-director Caitlin Reid, Senior Student Recruitment Coordinator

Date: Tuesday 13 June, 12.00-12.50pm, online



Acknowledgement of Country

'I acknowledge the Traditional Custodians of the land on which we meet today, and I pay my respects to their Elders past, present and emerging. I also extend that respect to any Aboriginal and Torres Strait Islander peoples here today'









Demand for IT specialists

- Half of the jobs in the Australian LinkedIn Jobs on the Rise Report 2022 require an IT background.
- A senior .NET/Java developer can expect a salary between \$120,000 and \$170,000 a year before superannuation.
- The average salary for a data scientist in Australia ranges between \$110,000 to \$140,000 per year (SEEK, 2022)
- By 2026, data science will create another 11.5 million job openings.
- A **network administrator** in Melbourne is earns an average of around \$130,000 annually
- The role of **business analyst** was identified by Hays as the country's most needed within the technology category, just ahead of **cloud engineers** (\$160,000 in Sydney), **full stack developers** (\$160,000 in Canberra), and **cybersecurity analysts** (\$145,000 in Melbourne).

"91% of employers said they are facing a skills shortage... it's no surprise that Australian IT workers can easily find salaries in the mid six-figures"

https://ia.acs.org.au/content/ia/article/2022/it-workers-still-commanding-top-dollar.html?ref=newsletter





Undergraduate Courses

ATAR: 80.05

IB: 29

Duration: 3 years **Course Structure:** Comprehensive

Majors



Business Information

Systems



Games and Immersive Media



Cybersecurity



Software Development

Careers

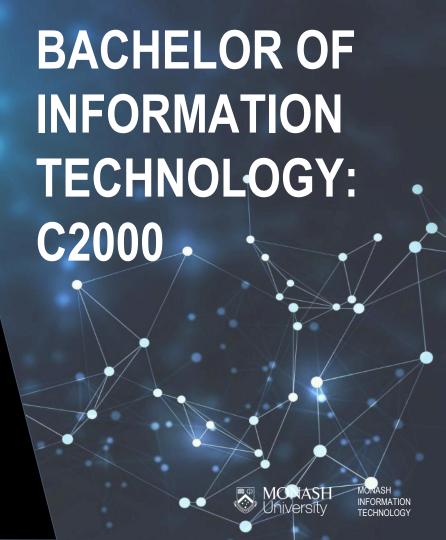
Cybersecurity Analyst
Web Developer
Software Manager
Games Developer

Salary

IT Graduate: \$69,000* After 3 years: \$90,000*

Average IT salary in Australia in 2023: \$135.517^

Computer Forensic Investigator



^{*} Graduate Outcomes Survey 2022

[^] www.adzuna.com.au/search?cat=2&loc=105392#stats_pay_distribution

Minors: Choose from 13 Minors



Business Information Systems



IT for Business



Cybersecurity



Mobile Apps Development



Computer Science



Software Development



Cybersecurity



Software Engineering



Games Design



Web Development



Games and immersive media



3D Modelling & Animation



Data Science





BACHELOR OF COMPUTER SCIENCE: C2001

ATAR: 84.15 IB: 31 Duration: 3 years Course Structure:

Specialist



Advanced Computer Science

Computer Science is the study of:

- Algorithms
- Data structures
- Programming languages
- Software design
- Computer hardware

It involves understanding how computers work and how to use them to solve problems.

Computer science has many sub-fields including AI, Computer Graphics, databases and programming languages



Data Science

Data Science is the study of data and how to use it to make informed decisions.

It involves collecting, cleaning, and analysing large data sets to identify patterns and trends.

Data Science requires the knowledge of:

- Statistics
- Mathematics
- Programming

As well as an understanding of machine learning algorithms and data visualisation techniques.



BACHELOR OF COMPUTER SCIENCE ADVANCED (HONOURS): C3001

ATAR: 95.70

IB: 38

Duration: 4 years

Course Structure:

Specialist



Computer Science Advanced (Honours)

This course offers the benefits of the Bachelor of Computer Science as well as a stream of practical research projects, and will suit mathematically minded high achieving students:

- More challenges
- Advanced classes
- Research and development programs
- Introduces students to innovation & research

Work on a substantial research project with experts.

Complete a Masters in 1 more year, and on to Research.

Careers: Computer Science

Database Administrator IT Consultant Specialist Programmer Computer Forensics Investigator

Careers: Computer Science Advanced

Chief Information Officer Machine Learning Engineer Scientific Researcher Data Architect



ATAR: 86.0 **IB:** 32

Duration: 4

years Course Structure: Specialist



Software Engineering (Honours)

This degree is designed to address the demand for graduates who possess skills in large scale software systems:

- Software development
- **Computer Science**
- Algorithms and Data structures
- Computer Architecture

Completed in collaboration with the Faculty of Engineering. Students complete a common 1st year.

Careers: Software Engineer

Network Administrator Software Developer **Business Analyst** Configuration Control Manager

BACHELOR OF SOFTWARE **ENGINEERING** (HONOURS): E3001



TECHNOLOGY

DO MORE WITH A DOUBLE DEGREE

Through our double degrees, students can establish themselves in two fields. An interdisciplinary skill set can help unlock more career opportunities, and create greater choice in life.

Choose from:

- Arts
- Business
- Commerce
- Criminology
- Design
- Engineering (Honours)
- Fine Art
- Global Studies
- Law (Honours)
- Science

In most cases, a double degree can be completed in 4 years which is far shorter than doing 2 separate degrees. This is because the required units from one course count as electives in the other.

Student Perspective

"Choosing to pursue a double degree in Computer Science and Commerce was the **best decision** I could have made. The analytical and technical skills I've gained from Computer Science, paired with the strategic mindset from Commerce, have given me a **competitive advantage** that is highly sought after by employers.

This degree has opened doors for exciting and more **flexible opportunities**, and I can't wait to see where it takes me in the ever-evolving world of technology and business!"



DO MORE WITH A DOUBLE DEGREE

	Arts	Business	Commerce	Criminology	Design	Engineering	Fine Art	Global Studies	Law	Science
COMPUTER SCIENCE										
Advanced Computer Science										
Data Science										
INFORMATION TECHNOLOGY										
Business Information Systems										
Cybersecurity										
Games and Immersive Media										
Software Development										
SOFTWARE ENGINEERING										



Work Integrated Learning Programs (WIL)

The Faculty of IT provides students with the opportunity to apply their knowledge in real world settings

Students have access to the following WIL opportunities:









INDUSTRY BASED LEARNING - IBL

INDUSTRY EXPERIENCE PROJECTS - IE

STUDIO PROJECT UNITS

MONASH INDUSTRY TEAM INITIATIVE - MITI







The Monash student experience

CAMPUS LIFE & CULTURE

Accommodation at MRS



Monash Sports



Cafes & Restaurants



Student & IT Clubs



monash.edu/accommodation

monash.edu/sport

monash.edu/food-and-retail

monash.edu/students/campus-life/clubs

monash.edu/students/campus-life/non-residential-colleges





CLUBS & SOCIETIES













Scholarship Opportunities

www.monash.edu/it/future-students/scholarships

IT Excellence Scholarship

As a scholarship recipient, you will receive \$6,000 per annum for the duration of your degree (up to \$24,00 for a 4 year degree)

Open to Australian students studying Year 12 or IB.

Awarded to the most high achieving student (minimum ATAR of 95.00)

Women in Technology

We support bright young women who wish to study IT. No application is necessary and you will be automatically assessed when you apply.

Scholarship is \$6,000 for 1 year.

IBL Scholarships

The Industry Based Learning (IBL) program is available for all IT students to apply. Successful applicants receive financial support for the duration of the 22 week placement.

Scholarship is \$19,000 for the placement.





A collaboration between:





Who we are

A collaboration between:









Our Ethos

Impact

Making a difference, rapidly enhance capabilities





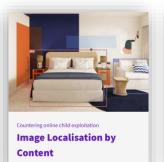
What we do





















QUESTION TIME!



f @MonashInfoTech

monash.edu/it

fit-student.recruitment@monash.edu

