

Information and Communication Technology

From the food on our plates to the money in our bank accounts, our lives rely on technology.

Information and Communication Technology supports every industry around the world, and our degrees will prepare you for a future career in any field.

You'll develop skills that are in demand globally, and gain valuable project management abilities that will set you apart as an ICT professional. You could be developing software solutions of the future, embedded in multi-disciplinary teams, or leading ICT-driven changes in sectors such as agriculture, banking, education, health, defence, and more.

WHY STUDY ICT WITH US?



Design, build and deploy an IT related solution for a real client with our work-integrated learning program.



Learn from teaching staff who are active in research and industry, including game developers and publishers.



Access advanced IT facilities including The Human Interface Technology Laboratory (HITLab), located at our Newnham campus.

[> LEARN MORE](#)

Bachelor of Information and Communication Technology

[> VIEW COURSE DETAILS](#)

Duration Min. 3 years, max. 7 years*

Location Launceston and Hobart

CRICOS 079196G

Associate Degree in Applied Technologies

[> VIEW COURSE DETAILS](#)

Duration Min. 2 years, max. 5 years*

Location Launceston, Hobart and Cradle Coast

CRICOS 0100834

Undergraduate Certificate in Applied Technology

[> VIEW COURSE DETAILS](#)

Duration 6 months full-time study

Location Fully Online

CRICOS 094552A

*Subject to international student visa conditions if applicable.

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“I really want to encourage more women to get into IT careers. Even if they're not interested in programming, there's so many other aspects of it.”

– MOLLY STEER, ICT GRADUATE

WHAT CAN I STUDY?

Business Analysis

Learn the complex process of identifying problems within a business, understanding what the implications of those problems might be, and developing ICT-based solutions. In addition to technical skills, you'll learn project management and communication skills that provide the much-needed link between businesses and technical experts.

Cyber Security

The highly connected world we live in is filled with threats to our systems and devices. This major will enable you to get a foundational understanding of these risks, including encryption systems, penetration testing and eForensics, as well as how to protect businesses and systems.

Data Science

Data is key to government, commerce and science. This major provides an opportunity to explore new kinds of data and tools for processing it. You'll also learn how to capture, manipulate and process huge volumes of digital data and transform it all into usable information.

Games and Creative Technology

Develop a detailed understanding of the processes and technologies used in the development of games and interactive systems. You'll learn to design, model and program with industry-leading technologies, tools and languages, including VR/AR technology applied in the game and multimedia industries.

Software Development

Have a passion for writing code? This major provides an opportunity to deepen and strengthen your programming skills to construct complex software systems. Gain the skills and knowledge to engineer standalone, mobile, networked, multicore and web-based software systems.

Computer Science

Computer science is more than just developing software. It prepares graduates for a diverse range of careers. Computer Science will equip you with a broad understanding of ICT technologies including programming, machine learning, and data processing. Pairing Computer Science with another specialisation also allows you to tailor your degree to various job opportunities.

Artificial Intelligence

Artificial Intelligence (AI) is a rapidly growing area of business. It influences the way we live, communicate, and improve customer experiences. This major covers in-depth areas such as machine learning, digital disruption, data manipulation, and graphical display. It also integrates core business principles to identify and develop ICT-based solutions for a wide variety of organisations.

Geospatial Information Systems

Information Systems and Geospatial Sciences are interconnected areas of technology, which are applied to solve complex environmental, social, and economic challenges. Graduates are multi-skilled professionals, trained to gather and identify geospatial information using technologies such as drones, satellite data, and remote sensing.

Learn more about our ICT programs here.

If you've never considered a career in IT but love all things 'tech', the Associate Degree in Applied Technologies is for you. You'll get plenty of hands-on experience with real-world issues such as automation, information security and data analysis.

Cyber Security

Developed in consultation with industry, this program equips you with the skills and knowledge that real businesses are demanding from their employees. Graduate with both the technical and project management skills to work in any type of organisation.

Industry Automation

This hands-on course combines core studies in areas of Applied Technologies, such as Programming Principles and IT Security Management, along with electrical systems, digital control systems, sensor and sensor network and intelligent systems and robotics. All of which are key areas across a wide range of industries.

CAREER OUTLOOK

Whether it's designing apps or websites, running virtual reality tours, building the latest gaming sensation, or working at a bank leading advancement in cyber security, a career in Information and Communication Technology will set you up for life.

Careers relating to technology are growing, with employers demanding technical expertise across a wide variety of different industries. Here are some of the top jobs projected to grow in the next five years:

28.9% ICT Support and Test Engineers

24.5% Network and Support Professionals

23.4% Software and Applications Programmers

*2019 Occupational Projections, five years to May 2024