What is ICT all about?

Information and Communication Technology (ICT) is central to life in today’s technologically advanced world. The field of ICT is highly dynamic and is subject to unpredictable transformations by emerging technology, which requires constant adaptation by those who engage with it directly, or by those whose lives and communities are affected by its innovations. The subject Information and Communication Technology will provide you with opportunities to explore, experience and learn knowledge and practical skills that are highly valued across work, business, government, education and leisure contexts.

What will you learn?

In ICT you will learn the practical knowledge and skills needed when working with ICTs. Your learning will be shaped around core and elective knowledge, understanding and skills. You will study three core topics: Hardware, Software and ICT in society and will have opportunities to explore these topics through at least three of nine possible elective contexts:

- **Animation** — designing and producing animated graphic images and creating 2D or 3D digital animation using animation software, e.g. as part of a game, website, multimedia presentation or as a stand-alone animation
- **Application development** — developing software applications for a variety of devices, e.g. mobile applications, games, robotics or other forms of software
- **Audio and video production** — capturing or creating, manipulating, editing and communicating digital audio and video for a range of multimedia genres including websites, presentations, games and other interactive multimedia
- **Data management** — understanding and applying data management concepts, ideas and procedures and exploring various methods of data storage, uses and management
- **Digital imaging and modelling** — acquiring, creating and manipulating digital still images, models and graphical representations for a range of multimedia genres including websites, presentations, games and prototyping
- **Document production** — using document production software to develop documents that enhance communication, e.g. creating a range of document types including word processing and publishing software
- **Network fundamentals** — understanding network hardware and software components which allow sharing of data locally and globally, and producing solutions to technical problems using networks
- **Online communication** — acquiring an understanding of types of online communities and their needs, and the types, purposes and functionality of specific types of websites that support information exchanges, including wikis, blogs, forums and social networking sites
- **Website production** — designing, producing, publishing and maintaining websites.
How will you learn?

All learning in ICT will be explored through a problem-solving process. You will apply your knowledge of ICT to produce solutions to simulated problems. Through practice in problem-solving in a variety of contexts, both individually and collaboratively, you will gain experience and skills in being an adaptable, competent and self-motivated user and consumer of ICT who can work with clients and colleagues to identify issues and solve problems.

How will you be assessed?

Assessment in Information and Communication Technology gives you opportunities to develop and demonstrate your knowledge, understanding and skills.

Assessment instruments include:

- projects, which provide you with authentic, real-world opportunities to demonstrate your learning; e.g. using ICT to respond to a client brief, i.e. planning, creating and presenting a suite of conference materials for a company including stage banners, promotional posters, business cards, programs and dinner menus
- extended response to stimulus, e.g. slides with transitions and accompanying audio.

In Year 12, you will be expected to complete four to six assessment instruments, including at least two projects and one extended response to stimulus.

How can parents/carers help?

Your parents/carers may help you by:

- encouraging and helping you find suitable websites, documentaries, journals and other resources
- encouraging you to take part in school-based activities, including field trips, and extracurricular activities
- offering their services as guest speakers if they are involved in the industry
- encouraging safe and ethical behaviour
- contacting your school to establish communication with your teachers to help understand the work undertaken at senior level, and to become familiar with assessment requirements.

Where can ICT take you?

This subject contributes four credits towards the Queensland Certificate of Education (QCE) if you receive a Sound Achievement or higher. To learn more about this certificate, please visit the QCE page on the QCAA website, www.qcaa.qld.edu.au/589.html.

A course of study in Information and Communication Technology can establish a basis for further education and employment in many fields especially the fields of ICT operations, help desk, sales support, digital media support, office administration, records and data management, and call centres.

More information

This subject guide relates to courses developed from the Information and Communication Technology Subject Area Syllabus 2014. If you would like more information, please:

- visit the subject page on the QCAA website www.qcaa.qld.edu.au/30490.html
- email senior.syllabuses@qcaa.qld.edu.au.