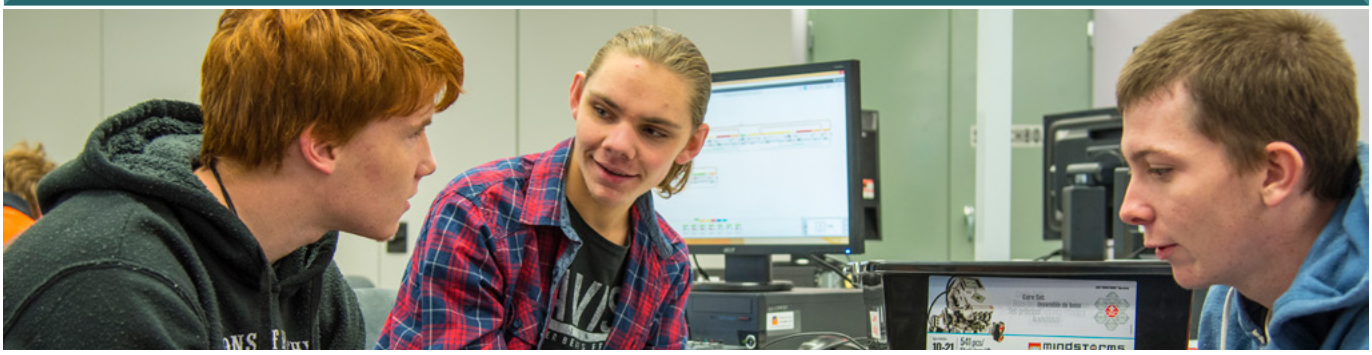
TECHNOLOGIES: DIGITAL TECHNOLOGIES



You have:	TASC subjects	May lead to:
No previous experience	Basic Computing 1	Employment and further computer studies
	Computing 2 Package	
	Essential Skills - Using Computers and the Internet 2	
Some computing background	CISCO IT Essentials 5.0	
An 'A/B' (or 'C' in consultation with teachers) in Australian Year 10 Curriculum Mathematics, or Mathematics Methods Foundation 2, and Computing Skills	Computer Science 3	Study in computing, engineering, sciences and other areas
Strong background in Year 10 Australian Curriculum English	Information Systems and Digital Technologies 3	

You have:	VET programs	May lead to:
No previous experience but an interest in the area	Certificate I in Information, Digital Media and Technology	Employment and further computer studies
	Certificate II in Information, Digital Media and Technology	
Certificate II in Information, Digital Media and Technology or equivalent skills would be an advantage	Certificate III in Information, Digital Media and Technology	Study in computing, engineering, sciences and other areas

level 1 level 2 level 3

level 1 level 2 level 3

TASC subjects

Basic Computing 1
ICT110114

YOU WILL LEARN ABOUT:
- Computer hardware and software
- Using the internet.

YOU DO THIS BY STUDYING:
- A broad range of software
- Computer systems
- Social issues associated with technology
- File management.

LEARNING ACTIVITIES MAY INCLUDE:
- Tutorials
- Assignments
- Projects.

TO ENROL IN THIS SUBJECT YOU NEED:
- No prior computing experience.

THIS SUBJECT:
- Gives you many useful computing skills for use in other areas of study
- Provides a pathway to further study in computing
- Contributes 10 credit points for the Tasmanian Certificate of Education.

Computing 2 Package*
ICT2C00 (15 points) or ICT2B00 (10 points)

YOU WILL LEARN ABOUT:
- Knowledge and skills within an area of focus# including:
  - » Business
  - » Game design
  - » Information processing
  - » Information management
  - » Multimedia
  - » Programming and control
  - » Robotics
  - » Publishing
  - » System management and support.
- Computer hardware and software
- Social, legal and ethical issues.

#Please check online: www.education.tas.gov.au/parents_carers/schools-colleges/Pages/Years-11-and-12.aspx for area of focus offered by each school.

YOU DO THIS BY STUDYING:
- Computer applications and systems
- Computer software
- Computer use.

LEARNING ACTIVITIES MAY INCLUDE:
- Tutorials
- Assignments
- A major project relating to your focus area.

TO ENROL IN THIS SUBJECT YOU NEED:
- No previous experience.

THIS SUBJECT:
- Gives you many useful computing skills
- Provides a pathway for further study in computing
- Contributes either 10 credit points (ICT2B00) or 15 credit points (ICT2C00) and meets the standard for everyday adult use of computers and the internet for the Tasmanian Certificate of Education.

* NOTE: This course is available as either a 10 or 15 point course by combining *Computer Applications ICT205114* with two other courses, *Essential Skills - Using Computers and the Internet ESC205114* and *Project Implementation PRJ205113*, for a 15 point course or one of these courses for a 10 point course. Please check the offerings at your local senior secondary school online: (www.education.tas.gov.au/parents_carers/schools-colleges/Pages/Years-11-and-12.aspx)

Essential Skills - Using Computers and the Internet 2
ESC205114

YOU WILL LEARN ABOUT:
- Computing terms and concepts
- Safe and effective use of computers, internet, email and social media
- Occupational health and safety issues
- Application of a variety of computer software and hardware
- File management
- Copyright.

YOU DO THIS BY STUDYING:
- Aspects of:
  - » Word processing
  - » Spread sheets
  - » Internet
  - » Email
  - » Digital graphics
  - » Digital file types
  - » Using information from the internet and digital storage devices
  - » Transferring data, e.g. saving images or text from one source to use in another
  - » How to use printers and other peripherals
  - » Effective computer use.

LEARNING ACTIVITIES MAY INCLUDE:
- Assignments and practical activities.

TO ENROL IN THIS SUBJECT YOU NEED:
- An interest in developing ICT skills.

THIS SUBJECT:
- Equips you with basic knowledge and skills for the workplace and daily living
- Contributes 5 credit points and meets the standard for everyday adult use of computers and the internet for the Tasmanian Certificate of Education.

CISCO IT Essentials 5.0
CCNADIS5

YOU WILL LEARN ABOUT:
- Fundamentals of computer hardware and software and advanced concepts such as security, networking and the responsibilities of an IT professional.

YOU DO THIS BY STUDYING:
- Components and assembly of desktop computers
- Preventative maintenance of computers
- Installation and navigation of operating systems
- Installing and upgrading of laptop components
- Configuring computers to a network
- Installing and sharing printers
- Hardware and software security principles
- Responsibilities of an ICT professional.

LEARNING ACTIVITIES MAY INCLUDE:
- Assembling computers
- Hardware and software installations, upgrades and troubleshooting
- Practical networking activities
- Communicating with customers.

TO ENROL IN THIS SUBJECT YOU NEED:
- Some computing background.

THIS SUBJECT:
- Develops the skills currently expected of those employed in this industry
- Prepares for roles as a remote support technician, help desk technician, call centre technician, IT specialist or IT representative
- Contributes 15 credit points and meets the standard for everyday adult use of computers and the internet for the Tasmanian Certificate of Education.

Computer Science 3
ITC315113

YOU WILL LEARN ABOUT:

- How to program correctly
- The operation of the central processor.

YOU DO THIS BY STUDYING:

- Algorithm design and problem solving
- Programming using an object oriented programming language (java applets will be used)
- Testing and documentation
- Computer fundamentals which includes data representation, logic and basic circuits, computer architecture, and operating systems
- The professional responsibilities of a programmer.

LEARNING ACTIVITIES MAY INCLUDE:

- Practical programming tasks that solve problems and utilise the theory taught to ensure the programs are correctly written
- Theory classes and assignments to build underpinning knowledge and skills
- A project to explore an area of interest in more depth.

TO ENROL IN THIS SUBJECT YOU NEED:

- A strong background in Year 10 Australian Curriculum mathematics, or *Mathematics Methods Foundation 2* is an advantage
- Some computing skills are an advantage.

THIS SUBJECT:

- Provides a pathway for further study in computing, engineering, the sciences, business and other areas involving analytical and problem-solving skills
- Contributes 15 credit points and meets the standard for everyday adult use of computers and the internet for the Tasmanian Certificate of Education.

Information Systems and Digital Technologies 3
ITS315113

YOU WILL LEARN ABOUT:

- Information systems and how they are used extensively in all kinds of organisations to manage and control information
- Using detailed project management and problem solving techniques to solve real world information problems
- Developing solutions using a variety of software tools
- Working in teams to manage and undertake a major project that develops a working solution for a real client
- Emerging technologies and issues.

YOU DO THIS BY STUDYING:

- How to use a variety of software tools that transform data into information
- High level problem solving: systems development life cycle and project management
- How the key components interact within an information system and their environment
- Current news and IT developments to appreciate the social, ethical and legal issues of information systems.

LEARNING ACTIVITIES MAY INCLUDE:

- Theory lessons and assignments
- Practical exercises to develop skills and knowledge required to analyse, develop and implement systems or components of systems
- Applied projects and challenge-based activities.

TO ENROL IN THIS SUBJECT YOU NEED:

- Sound English and IT skills are an advantage.

THIS SUBJECT:

- Provides highly-valued, current skills and understanding for use in many areas by developing creative solutions as well as learning about the tools to create them
- Gives value-added learning for use in a wide range of study areas and employment including, but not limited to, information technology, business, health, law, commerce, engineering, education, arts and sciences
- Contributes 15 credit points and meets the standard for everyday adult use of computers and the internet for the Tasmanian Certificate of Education.

VET programs

All certificate programs contribute credit points for the Tasmanian Certificate of Education. The number of credit points is dependent on the units of competence. For details view the TASC course planner at: www.tasc.tas.gov.au/3666

Certificate I in Information, Digital Media and Technology
ICT10115

YOU WILL LEARN ABOUT:

- Foundation digital literacy tasks using a personal computer and a range of software applications and digital devices.

YOU DO THIS BY STUDYING:

- How to operate a personal computer
- File management
- Applications within the Microsoft Office suite such as Microsoft Word, Microsoft PowerPoint and/or Microsoft Excel
- Using the internet
- Health and safety
- Using email.

LEARNING ACTIVITIES MAY INCLUDE:

- Assignments and practical activities
- Using digital devices such as cameras and printers.

TO ENROL IN THIS PROGRAM YOU NEED:

- No prior computing experience.

THIS PROGRAM:

- Provides a pathway to *Certificate II in Information, Digital Media and Technology* or a range of other Certificate II qualifications.

Certificate II in Information, Digital Media and Technology
ICT20115

YOU WILL LEARN ABOUT:

- The skills and knowledge necessary for competency in a wide range of general information and communications technology (ICT) technical functions and to achieve a degree of self-sufficiency as an advanced ICT user.

YOU DO THIS BY STUDYING:

- Applications within the Microsoft Office suite
- Photo manipulation
- PC hardware and software
- Health and safety
- Sustainable work practices.

LEARNING ACTIVITIES MAY INCLUDE:

- Producing documents
- Building computers
- Installing operating systems and programs
- Troubleshooting basic problems
- Using social media
- Installing printers.

TO ENROL IN THIS PROGRAM YOU NEED:

- No prior computing experience
- To participate in a selection process.

THIS PROGRAM:

- Provides a pathway to *Certificate III in Information, Digital Media and Technology* or a range of other Certificate III qualifications.

Certificate III in Information, Digital Media and Technology
ICT30115

YOU WILL LEARN ABOUT:

- The skills and knowledge to support information technology activities in the workplace across a wide range of ICT areas, including:
  - » Technical support
  - » Network administration
  - » Web technologies
  - » Software applications
  - » Digital media technologies.

YOU DO THIS BY STUDYING:

- How to optimise computer operation
- Advanced applications
- Web mark-up languages
- Occupational health and safety
- Sustainable work practices
- Networking
- Providing advice to clients.

LEARNING ACTIVITIES MAY INCLUDE:

- Advanced operating system and hardware installs
- Advanced troubleshooting
- Building and using networks
- Building and using servers
- Creating websites
- Real life case studies and projects.

TO ENROL IN THIS PROGRAM YOU NEED:

- *Certificate II in Information, Digital Media and Technology* or equivalent skills would be an advantage
- To participate in a suitability process.

THIS PROGRAM:

- Provides a pathway to *Certificate IV in Information, Digital Media and Technology*, or a range of other Certificate IV qualifications.