DIGITAL MEDIA AND INFORMATION TECHNOLOGY **COURSES**

Digital media and information technology skills are in demand. This fast paced industry offers a wide range of exciting job opportunities. At TAFE International Western Australia, you will graduate with practical skills and experience in the latest industry approved software and technologies related to digital media, information technology, networking, software development and website development.

"The 'learn through practice' approach of the course is a real plus for students. We were able to understand how the industry works. This course has provided me with the essential skills the workforce requires.

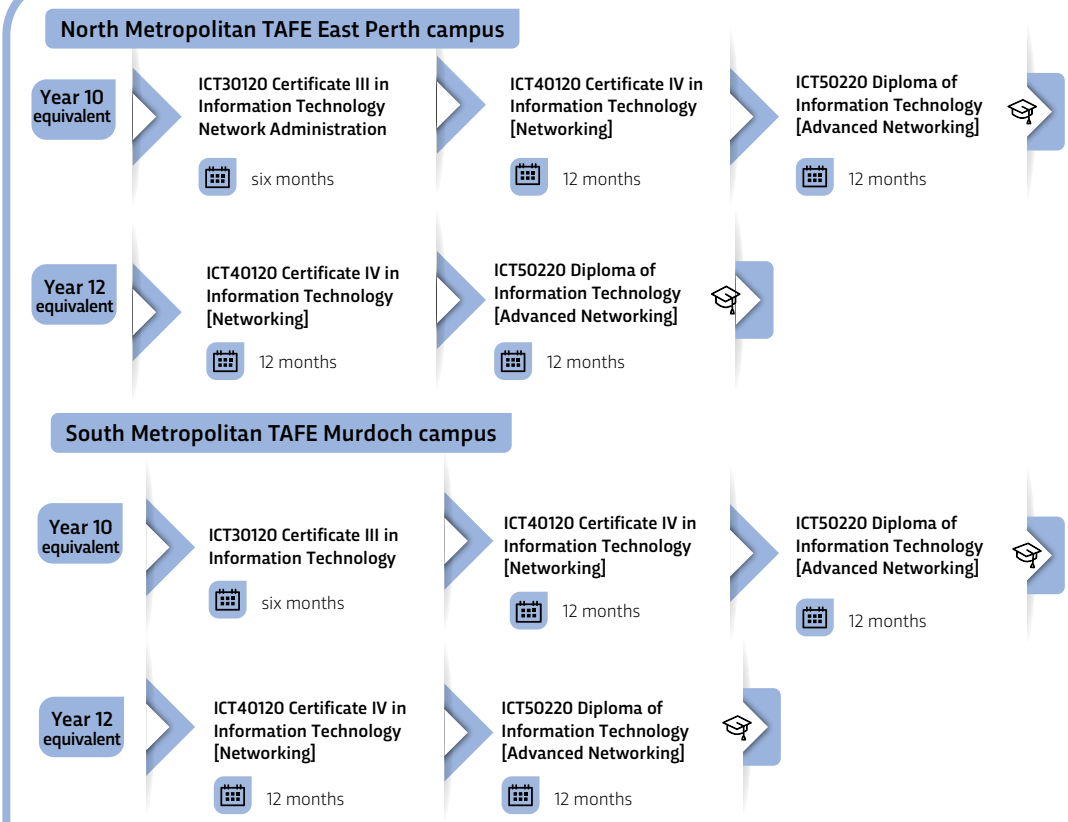
Thanks to my lecturer I have had the opportunity to do work placement during my course. It was a very valuable experience that gave me exposure to various fields of the industry. I was able to improve my communication and planning skills and my ability to work within a team."

Satyam Kumar Gopy | Mauritius

ICT50418 Diploma of Information Technology Networking

Disclaimer: Course information is correct at time of publishing. For up to date information please download a course flyer from our website **tafeinternational.wa.edu.au/courses**. For admission requirements that relate to your country please visit our website **tafeinternational.wa.edu.au/admission-requirements**.

NETWORKING



All courses listed require an IELTS score (Academic) 6.0 with no band less than 5.0 or equivalent, unless otherwise stated.

UniPathways — Start your studies at TAFE then continue to university with a UniPathway.

ICT30120 Certificate III in Information Technology Network Administration

TAFE ID: AC11 | CRICOS code: 106319G

Why choose this course?

Start your career in the fast growing information technology (IT) industry with this qualification. This course will provide you with the knowledge to develop basic network administration skills. You will learn how to provide support in the workplace across a range of information and communication technology (ICT) areas including technical support and network administration.

During your studies you will develop the knowledge and skills in maintaining computer operating systems and hardware, identifying online security threats and operating application software packages. In addition, you will learn how to configure, secure and test system software for a small home office network or small to medium business network.

College	February intake	July intake
North Metropolitan TAFE East Perth campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 12 units comprising:

- six core units; and
- six electives.

Core units

- BSBCRT301 Develop and extend critical and creative thinking skills
- BSBXCS303 Securely manage personally identifiable information and workplace information
- BSBXTW301 Work in a team
- ICTICT313 Identify IP, ethics and privacy policies in ICT environments
- ICTPRG302 Apply introductory programming techniques
- ICTSAS305 Provide ICT advice to clients

North Metropolitan TAFE East Perth campus

Tuition fee $6,240 | **Resource fee** $120 | **Materials fee** $110
Duration one semester (six months)

Electives

- BSBXCS301 Protect own personal online profile from cyber security threats
- BSBXCS302 Identify and report online security threats

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» ICTICT213 Use computer operating systems and hardware
» ICTICT214 Operate application software packages
» ICTNWK311 Install and manage network protocols
» ICTSAS310 Install, configure and secure a small office or home office network

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, learning guides, ebooks and handouts.

Facilities and equipment may include access to computer laboratories equipped with individual student workstations and lecturer screen projectors, various hardware components and personal computers. In addition, access may be available to various software applications including the Adobe suite, ClickView, Blackboard Collaborate Launcher, Google Chrome, IE 9, Microsoft Project 2013, Microsoft Visio Pro 2013, Mozilla Firefox, Office Suite 2013, Quicktime player, VLC media player, Vmware view, Windows 7, GitHub Desktop, My SQL, Workbench, Netbean, Notepad++, Proxifier, Python, Ruby, SynchronEyes, VirtualBox and Visual Studio Community and the latest versions of web browsers.

Work placement information

There is no work placement requirement for this course.

Career opportunities

» IT technician
» Client support officer
» ICT operations support

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ICT30120 Certificate III in Information Technology

TAFE ID: BFF7 | CRICOS code: 106319G

Why choose this course?

Start your career in the fast growing information technology (IT) industry with this qualification. On completion of this course you will be competent in a range of general IT skills including support services, networking, programming and critical and creative thinking skills.

During your studies, there will be a general focus on skills such as hardware installation and maintenance, supporting PC operating systems, network operating system installations and management, Microsoft Office applications and documentation and information and communication technology (ICT) helpdesk skills.

College	February intake	July intake
South Metropolitan TAFE Murdoch campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 12 units comprising:

- six core units; and
- six electives.

Core units

- BSBCRT301 Develop and extend critical and creative thinking skills
- BSBXCS303 Securely manage personally identifiable information and workplace information
- BSBXTW301 Work in a team
- ICTICT313 Identify IP, ethics and privacy policies in ICT environments
- ICTPRG302 Apply introductory programming techniques
- ICTSAS305 Provide ICT advice to clients

South Metropolitan TAFE Murdoch campus

Tuition fee $6,240 | **Resource fee** $201 | **Materials fee** $0
Duration one semester (six months)

Electives

- ICTICT216 Design and create basic organisational documents
- ICTICT314 Connect internal hardware components
- ICTNWK309 Configure and administer network operating systems
- ICTNWK311 Install and test network protocols
- ICTSAS310 Install, configure and secure a small office or home office network
- ICTSAS311 Maintain computer hardware

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, handouts, and simulated online working business.

Facilities and equipment may include access to computer laboratories with personal computers, VMWare Software, MS Office software, internet, Adobe CC Software, printers and SLR cameras.

Work placement information

There is no work placement requirement for this course.

Career opportunities

- IT technician
- Client support officer
- ICT operations support

ICT40120 Certificate IV in Information Technology [Networking]

TAFE ID: AC10 | CRICOS code: 106320C

Why choose this course?

Step into a dynamic career in information technology networking with this qualification. This specialised area will equip you for a broad range of information technology roles in networking, customer support and cloud related fields.

Gain the practical skills and knowledge to install and configure small to medium size modern networks, including exposure to virtual machines, wireless technologies, cloud storage, infrastructure devices, deployment resources to desktops and user support. In addition, learn how to manage data integrity and test network security.

During your studies, you will apply troubleshooting networking protocols and technologies, build effective communication, documentation and general business skills.

Colleges	February intake	July intake
North Metropolitan TAFE East Perth campus	■	■
South Metropolitan TAFE Murdoch campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 20 units comprising:

- seven core units; and
- 13 electives.

There are common electives available at all campuses while other electives are campus-specific.

Core units

- BSBCRT404 Apply advanced critical thinking to work processes
- BSBXCS404 Contribute to cyber security risk management
- ICTICT426 Identify and evaluate emerging technologies and practices
- ICTICT443 Work collaboratively in the ICT industry
- ICTICT451 Comply with IP, ethics and privacy policies in ICT environments
- ICTPRG302 Apply introductory programming techniques
- ICTSAS432 Identify and resolve client ICT problems

Electives offered at all campuses

- ICTNWK420 Install and configure virtual machines
- ICTNWK421 Install, configure and test network security
- ICTNWK422 Install and manage servers
- ICTNWK423 Manage network and data integrity
- ICTNWK424 Install and operate small enterprise branch networks
- ICTNWK429 Install hardware to networks
- ICTNWK427 Configure desktop environments
- ICTTEN434 Install, configure and test internet protocol networks

North Metropolitan TAFE East Perth campus

Tuition fee $12,480 | **Resource fee** $360 | **Materials fee** $220
Duration two semesters (12 months)

Electives (campus-specific)

- ICTNWK426 Install and configure client-server applications and services
- ICTNWK428 Create scripts for networking
- ICTNWK434 Identify and implement industry standard virtualisation technologies
- ICTNWK435 Create secure virtual private networks
- ICTPRG434 Automate processes

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, ebooks and handouts.

Facilities and equipment may include access to computer laboratories equipped with individual student workstations and lecturer screen projectors, various hardware components and personal computers. In addition, access may be available to various software applications including the Adobe suite, ClickView, Blackboard Collaborate Launcher, Google Chrome, IE 9, Microsoft Project 2013, Microsoft Visio Pro 2013, Mozilla Firefox, Office Suite 2013, Quicktime player, VLC media player, Vmware view, Windows 7, GitHub Desktop, My SQL, Workbench, Netbean, Notepad++, Proxifier, Python, Ruby, SynchronEyes, VirtualBox and Visual Studio Community and the latest versions of web browsers.

South Metropolitan TAFE Murdoch campus

Tuition fee $12,480 | **Resource fee** $410 | **Materials fee** $220
Duration two semesters (12 months)

Electives (campus-specific)

- BSBCRT512 Originate and develop concepts
- BSBXCS402 Promote workplace cyber security awareness and best practices
- ICTICT532 Apply IP, ethics and privacy in ICT environments
- ICTNWK430 Deploy software to networked computers
- ICTNWK432 Build an enterprise wireless network

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, links to external resources such as YouTube, handouts, and a simulated online working environment.

Facilities and equipment may include access to computer laboratories with personal computers, OnTheHub website, Microsoft Azure, Windows 10, Office 365 and server operating systems.

Work placement information

There is no work placement requirement for this course.

Career opportunities

- Network specialist
- Network support
- Network administrator

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ICT50220 Diploma of Information Technology [Advanced Networking]

TAFE ID: AC20 | CRICOS code: 106321B

Why choose this course?

Navigate your career towards the specialised area of advanced networking with this qualification, and gain skills for employment in this in demand industry. During this course you will learn how to configure and manage virtual computing environments, and security within information and communication technology (ICT) networks.

You will acquire the skills and knowledge to install and manage complex ICT networks, design and build network servers, manage network security and install an enterprise virtual computing environment. In addition, you will also learn to plan, implement and test enterprise communication solutions. This course has embedded studies in Cisco, Microsoft Server and VMware.

Colleges	February intake	July intake
North Metropolitan TAFE East Perth campus	■	■
South Metropolitan TAFE Murdoch campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 20 units comprising:

- six core units; and
- 14 electives.

There are common electives available at all campuses while other electives are campus-specific.

Core units

- BSBCRT512 Originate and develop concepts
- BSBXCS402 Promote workplace cyber security awareness and best practices
- BSBXTW401 Lead and facilitate a team
- ICTICT517 Match ICT needs with the strategic direction of the organisation
- ICTICT532 Apply IP, ethics and privacy policies in ICT environments
- ICTSAS527 Manage client problems

Electives offered at all campuses

- ICTNWK529 Install and manage complex ICT networks
- ICTNWK536 Plan, implement and test enterprise communication solutions
- ICTNWK540 Design, build and test network servers
- ICTNWK546 Manage network security
- ICTNWK542 Install, operate and troubleshoot medium enterprise routers
- ICTNWK544 Design and implement a security perimeter for ICT networks
- ICTNWK557 Configure and manage advanced virtual computing environments
- ICTNWK559 Install an enterprise virtual computing environment

North Metropolitan TAFE East Perth campus

Tuition fee $12,480 | **Resource fee** $560 | **Materials fee** $220
Duration two semesters (12 months)

Electives (campus-specific)

- ICTNWK552 Install and configure network access storage devices
- ICTNWK554 Manage enterprise virtual computing environments
- ICTNWK629 Configure and manage storage area networks
- ICTPRG443 Apply intermediate programming skills in different languages
- ICTTEN422 Configure and troubleshoot advanced network switching
- ICTTEN622 Produce ICT network architecture designs

Learning resources, facilities and equipment

Learning resources may include access to computer laboratories, network drives, software, the Blackboard Learning Management System (LMS), PowerPoint presentations, handouts, Microsoft Edge and 365, VCL media players, Mozilla Firefox, CISCO NetAcad, VMWare Workstation, NetApp NCTA NS0-002, Python and VirtualBox.

Facilities and equipment may include access to classrooms and laboratories with the capacity to install virtual machines when required and USB 3.0 external drives 240GB or greater.

South Metropolitan TAFE Murdoch campus

Tuition fee $12,480 | **Resource fee** $690 | **Materials fee** $220
Duration two semesters (12 months)

Electives (campus-specific)

- ICTCLD501 Develop cloud disaster recovery plans
- ICTCLD502 Design and implement highly-available cloud infrastructure
- ICTCLD503 Implement web-scale cloud infrastructure
- ICTCLD504 Improve cloud-based infrastructure
- ICTNWK541 Configure, verify and troubleshoot WAN links and IP services
- ICTNWK543 Install, operate and troubleshoot medium enterprise switches

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), software publications, lecturer developed PowerPoint presentations, access to the network and virtualisation laboratories and classrooms equipped with personal computers.

Facilities and equipment may include access to a number of classrooms and laboratories that simulate business and industry, a fully equipped, virtualisation classroom for setting managing simulated infrastructure for VMware and Microsoft virtualisation solutions and test equipment used for troubleshooting and security training.

Work placement information

There is no work placement requirement for this course.

Career opportunities

- Computer installation technician
- Software applications programmer
- Network administrator

UniPathway

Options available at
tafeinternational.wa.edu.au/unipathwayfinder

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PROGRAMMING

North Metropolitan TAFE Perth campus

South Metropolitan TAFE Murdoch campus

All courses listed require an IELTS score (Academic) 6.0 with no band less than 5.0 or equivalent, unless otherwise stated.

UniPathways — Start your studies at TAFE then continue to university with a UniPathway.

ICT40120 Certificate IV in Information Technology [Programming]

TAFE ID: AC07 | CRICOS code: 106320C

Why choose this course?

Program your career in information technology (IT) with this qualification. Develop the technical skills and knowledge required for a programming role in this in demand industry.

During your course, you will learn skills in basic and intermediate programming in different languages, developing user interfaces, testing software development and using version control systems in development environments. In addition, your course covers, database development, knowledge of software libraries, understanding programming methodologies, writing technical documentation and testing techniques.

College	February intake	July intake
North Metropolitan TAFE Perth campus	■	■
South Metropolitan TAFE Murdoch campus	■	■

Course units

To achieve this qualification, students must demonstrate competency in 20 units comprising:

» seven core units; and
» 13 electives.

There are common electives available at all campuses while other electives are campus-specific.

Core units

» BSBCRT404 Apply advanced critical thinking to work processes
» BSBXCS404 Contribute to cyber security risk management
» ICTICT426 Identify and evaluate emerging technologies and practices
» ICTICT443 Work collaboratively in the ICT industry
» ICTICT451 Comply with IP, ethics and privacy policies in ICT environments
» ICTPRG302 Apply introductory programming techniques
» ICTSAS432 Identify and resolve client ICT problems

Electives offered at all campuses

» ICTICT449 Use version control systems in development environments

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» ICTPRG430 Apply introductory object-oriented language skills
» ICTPRG433 Test software developments
» ICTPRG437 Build a user interface
» ICTPRG440 Apply introductory programming skills in different languages
» ICTPRG441 Apply skills in object-oriented design
» ICTWEB441 Produce basic client-side script

North Metropolitan TAFE Perth campus

Tuition fee $12,480 | **Resource fee** $360 | **Materials fee** $220
Duration two semesters (12 months)

Electives (campus-specific)
» ICTPRG431 Apply query language in relational databases
» ICTPRG432 Develop data-driven applications
» ICTPRG436 Develop mobile applications
» ICTPRG444 Analyse software requirements
» ICTPRG443 Apply intermediate programming skills in different languages
» ICTWEB452 Create a markup language document

Learning resources, facilities and equipment
Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, eBooks and handouts.

Facilities and equipment may include access to computer laboratories equipped with individual student workstations and lecturer screen projectors, various hardware components and personal computers. In addition, access may include software applications such as the Adobe suite, Dreamweaver, Clickview, Collaborate Launcher, Google Chrome, IE 9, Microsoft Project 2013, Microsoft Visio Pro 2013, Mozilla Firefox, Office Suite 2013, Quicktime Player, VLC media player, Vmware View, Windows 7, Git Hub Desktop, My SQL, My SQL Workbench, Netbean, Notepad++, Proxifier, Python, Ruby and Ruby on Rails, Synchroneyes, VirtualBox, Visual Studio Community and the latest versions of web browsers.

South Metropolitan TAFE Murdoch campus

Tuition fee $12,480 | **Resource fee** $770 | **Materials fee** $220
Duration two semesters (12 months)

Electives (campus-specific)
» ICTAII401 Identify opportunities to apply artificial intelligence, machine learning and deep learning
» ICTAII501 Automate work tasks using machine learning
» ICAII502 Train and evaluate machine learning models
» ICTSAD501 Model data objects
» ICTWEB431 Create and style simple markup language documents
» ICTSAD502 Model data processes

Learning resources, facilities and equipment
Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, links to external resources such as YouTube, handouts, and a simulated online working environment.

Facilities and equipment may include access to computer laboratories with personal computers, OnTheHub website, Microsoft Azure, Windows 10, Office 365 and server operating systems.

Work placement information

There is no work placement requirement for this course.

Career opportunities

» Assistant programmer
» IT administration

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ICT50220 Diploma of Information Technology [Advanced Programming]

TAFE ID: AC21 | CRICOS code: 106321B

Why choose this course?

Boost your career in the specialised area of software development and programming with this qualification. Graduate confident, job ready and sought after by industry with your specialised skills in programming. Learn skills in how to apply intermediate and advanced programming skills, manage data and building advanced user interfaces to manage organisational requirements.

In this course, you will study how to apply advanced programming skills in other languages, build advanced user interfaces and manage data persistence using NoSQL data stores. In addition, you will implement and use a model view controller framework.

During your course, you will also benefit from using current industry standards and emerging technology as you conduct projects with industry partners.

College	February intake	July intake
North Metropolitan TAFE Perth campus	■	■
South Metropolitan TAFE Murdoch campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 20 units comprising:

- six core units; and
- 14 electives.

There are common electives available at all campuses while other electives are campus-specific.

Core units

- BSBCRT512 Originate and develop concepts
- BSBXCS402 Promote workplace cyber security awareness and best practices
- BSBXTW401 Lead and facilitate a team
- ICTICT517 Match ICT needs with the strategic direction of the organisation
- ICTICT532 Apply IP, ethics and privacy policies in ICT environments
- ICTSAS527 Manage client problems

Electives offered at all campuses

- ICTPRG535 Build advanced user interfaces
- ICTPRG547 Apply advanced programming skills in another language
- ICTPRG549 Apply intermediate object-oriented language skills
- ICTPRG554 Manage data persistence using noSQL data stores
- ICTPRG556 Implement and use a model view controller framework

North Metropolitan TAFE Perth campus

Tuition fee $12,480 | **Resource fee** $560 | **Materials fee** $220
Duration two semesters (12 months)

Electives (campus-specific)

- ICTDAT501 Gather, analyse and verify data from different source inputs
- BSBDAT501 Analyse data
- ICTDAT503 Use unsupervised learning for clustering
- ICTDBS507 Integrate databases with websites
- ICTIOT502 Program IoT devices
- ICTIOT503 Design and test IoT devices and networks
- ICTPRG537 Implement security for applications
- ICTPRG553 Create and develop REST APIs
- ICTPRG603 Develop advanced mobile multi-touch applications

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, eBooks, handouts and Linux Server.

Facilities and equipment may include access to computer laboratories and specialised software applications such as the Adobe suite, Dreamweaver, Clickview, Collaborate Launcher, Google Chrome, IE 9, Microsoft Project 2013, Microsoft Visio Pro 2013, Mozilla Firefox, Office Suite 2013, Quicktime Player, VLC media player, Vmware View, Windows 7, Git Hub Desktop, My SQL, My SQL Workbench, Netbean, Notepad++, Proxifier, Python, Ruby and Ruby on Rails, Synchroneyes, VirtualBox, Visual Studio Community and the latest versions of web browsers.

South Metropolitan TAFE Murdoch campus

Tuition fee $12,480 | **Resource fee** $690 | **Materials fee** $220
Duration two semesters (12 months)

Electives (campus-specific)

- ICTICT430 Apply software development methodologies
- ICTICT523 Gather data to identify business requirements
- ICTPRG443 Apply intermediate programming skills in different languages
- ICTICT531 Prepare for application development using current methods
- ICTICT532 Apply advanced object-oriented language skills
- ICTPRG533 Debug and monitor applications
- ICTPRG551 Apply testing techniques for software development
- ICTWEB513 Build dynamic websites
- ICTWEB514 Create dynamic web pages

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), software publications, lecturer developed PowerPoint presentations, handouts, network and virtualisation laboratories and classrooms equipped with PCs.

Facilities and equipment may include access to a number of classrooms and laboratories that simulate business and industry, a fully-equipped, virtualisation classroom for managing simulated infrastructure for VMWare and Microsoft virtualisation solutions and other rooms equipped with PCs and test equipment used for troubleshooting and security training.

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Work placement information

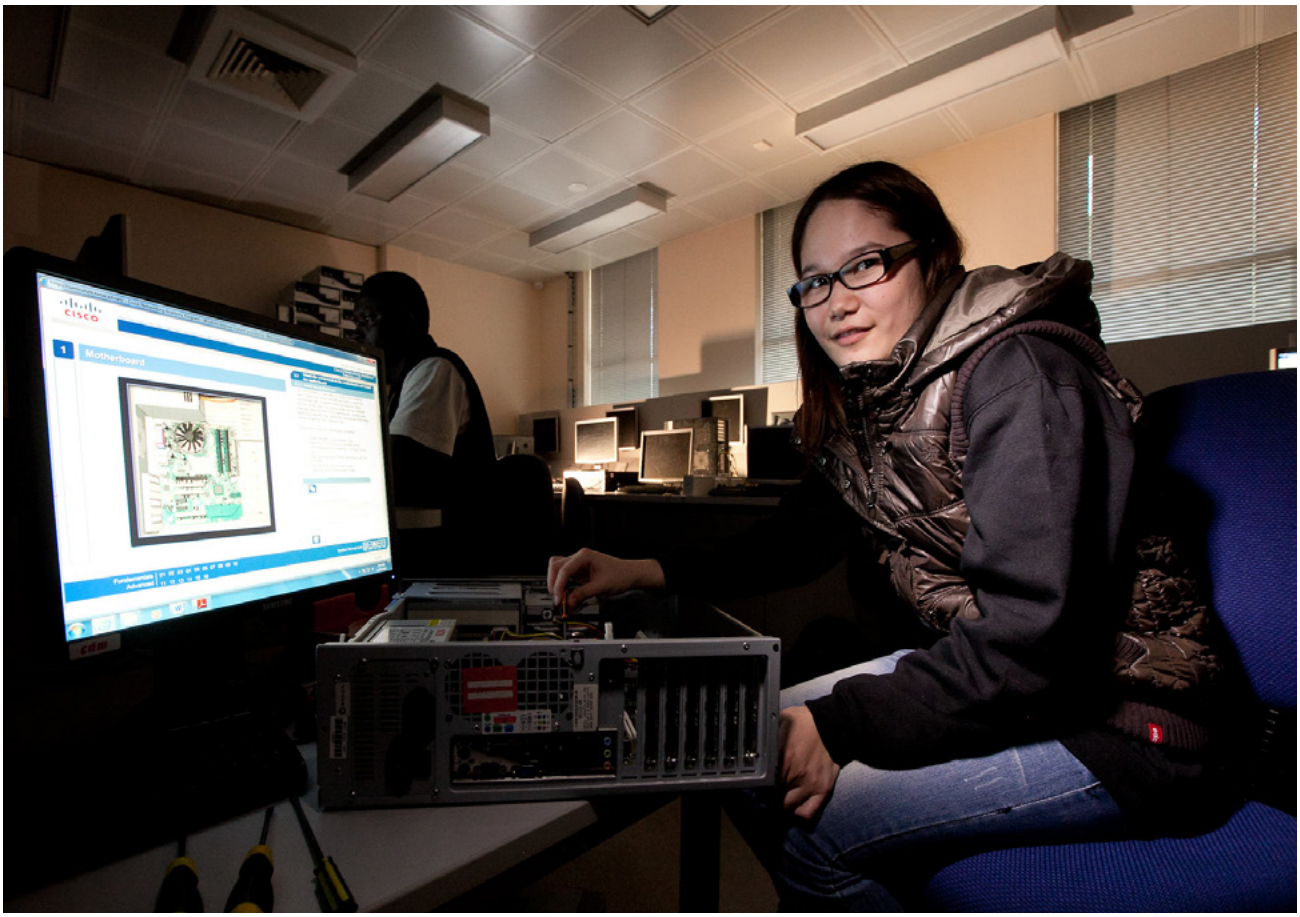
There is no work placement requirement for this course.

Career opportunities

» Digital programmer
» Software developer
» Software applications programmer

UniPathway

Options available at
tafeinternational.wa.edu.au/unipathwayfinder



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WEB DEVELOPMENT

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UniPathways — Start your studies at TAFE then continue to university with a UniPathway.

ICT30120 Certificate III in Information Technology Web Development

TAFE ID: AC15 | CRICOS code: 106319G

Why choose this course?

Start your career in the fast growing Information Technology (IT) industry with this qualification. On completion of this course you will have the fundamentals of programming and web development with key areas of specialisation in web design and business focused application development.

In your course you will gain skills in operating system installation and diagnostics, programming in an industry current programming language, website development using Adobe products and Microsoft Office suite. You will also benefit from obtaining valuable industry Cisco and Microsoft certifications during your studies.

College	February intake	July intake
North Metropolitan TAFE Perth campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 12 units comprising:

» six core units; and
» six electives.

Core units

» BSBCRT301 Develop and extend critical and creative thinking skills
» BSBXCS303 Securely manage personally identifiable information and workplace information
» BSBXTW301 Work in a team
» ICTICT313 Identify IP, ethics and privacy policies in ICT environments
» ICTPRG302 Apply introductory programming techniques
» ICTSAS305 Provide ICT advice to clients

North Metropolitan TAFE Perth campus

Tuition fee $6,240 | **Resource fee** $120 | **Materials fee** $110
Duration one semester (six months)

Electives

» BSBXCS301 Protect own personal online profile from cyber security threats
» BSBXCS302 Identify and report online security threats
» ICTICT214 Operate application software packages
» ICTSAS308 Run standard diagnostic tests
» ICTWEB304 Build simple web pages
» ICTWEB431 Create and style simple markup language documents

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, eBooks and handouts.

Facilities and equipment may include access to computer laboratories equipped with individual student workstations and lecturer screen projectors, various hardware components and personal computers. Additional access may include various software applications such as the Adobe suite, Dreamweaver, Clickview, Collaborate Launcher, Google Chrome, IE 9, Microsoft Project 2013, Microsoft Visio Pro 2013, Mozilla Firefox, Office Suite 2013, Quicktime Player, VLC media player, Vmware View, Windows 7, Git Hub Desktop, My SQL, My SQL Workbench, Netbean, Notepad++, Proxifier, Python, Ruby and Ruby on Rails, Synchroneyes, VirtualBox, Visual Studio Community and the latest versions of web browsers.

Work placement information

There is no work placement requirement for this course.

Career opportunities

» Client support officer

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ICT40120 Certificate IV in Information Technology [Web Development]

TAFE ID: AC25 | CRICOS code: 106320C

Why choose this course?

Continue your pathway into the vast world of website design and development with this qualification. More than ever, website designers are in demand as businesses and organisations continually improve their online presence and websites to reach their target audiences.

At the end of your studies, you will be involved in both the design and technical development of a website, designing and constructing web pages and creating the look and feel of the site. You will also learn about Cyber awareness, website security, digital layout techniques, UX Design and Web Apps. Technologies taught include the latest industry standard HTML5, CSS3, PHP, MySQL and JavaScript using a range of development tools. With your qualification you could find a career as an in-house designer or work in a design studio.

College	February intake	July intake
North Metropolitan TAFE Perth campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 20 units comprising:

- seven core units; and
- 13 electives.

Core units

- BSBCRT404 Apply advanced critical thinking to work processes
- BSBXCS404 Contribute to cyber security risk management
- ICTICT426 Identify and evaluate emerging technologies and practices
- ICTICT443 Work collaboratively in the ICT industry
- ICTICT451 Comply with IP, ethics and privacy policies in ICT environments
- ICTPRG302 Apply introductory programming techniques
- ICTSAS432 Identify and resolve client ICT problems

North Metropolitan TAFE Perth campus

Tuition fee $12,480 | **Resource fee** $360 | **Materials fee** $220
Duration two semesters (12 months)

Electives

- ICTWEB430 Produce server-side script for dynamic web pages
- ICTWEB431 Create and style simple markup language documents
- ICTWEB432 Design website layouts
- ICTWEB433 Confirm accessibility of websites
- ICTWEB434 Transfer content to websites
- ICTWEB436 Monitor traffic and compile website traffic reports
- ICTWEB439 Confirm basic website security
- ICTWEB441 Produce basic client-side script
- ICTWEB443 Implement search engine optimisations
- ICTWEB444 Create responsive website layouts
- ICTWEB450 Evaluate and select a web hosting service
- ICTWEB451 Apply structured query language in relational databases
- ICTWEB452 Create a markup language document

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint, learning guides, eBooks and handouts.

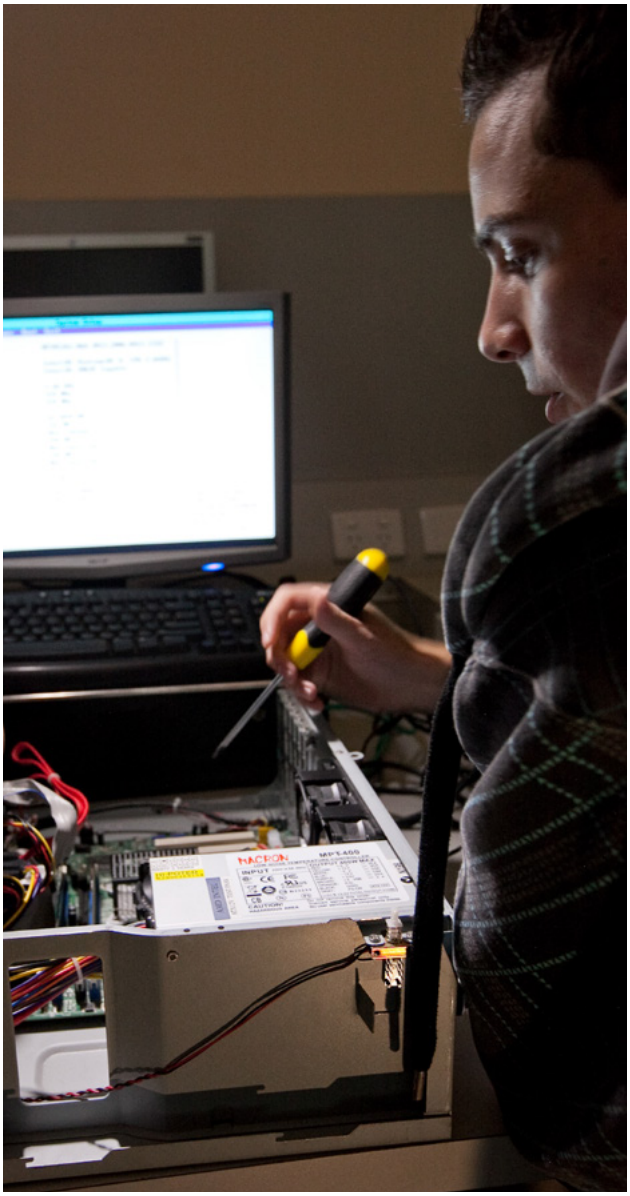
Facilities and equipment may include access to computer laboratories equipped with individual student workstations and lecturer screen projectors, various hardware components and personal computers. Additional access may include various software applications such as the Adobe suite, Dreamweaver, Clickview, Collaborate Launcher, Google Chrome, IE 9, Microsoft Project 2013, Microsoft Visio Pro 2013, Mozilla Firefox, Office Suite 2013, Quicktime Player, VLC media player, Vmware View, Windows 7, Git Hub Desktop, My SQL, My SQL Workbench, Netbean, Notepad++, Proxifier, Python, Ruby and Ruby on Rails, Synchroneyes, VirtualBox, Visual Studio Community and the latest versions of web browsers.

Work placement information

There is no work placement requirement for this course.

Career opportunities

- Assistant web designer
- Website coordinator
- Web and multimedia designer



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ICT50220 Diploma of Information Technology [Back End Web Development]

TAFE ID: AC27 | CRICOS code: 106321B

Why choose this course?

With the demand for talented and skilled developers expanding at a dynamic rate, further your information technology (IT) career with this qualification. The specialisation focus area for this course is back end web development, which refers to the server side of an application. It contains behind-the-scene activities that occur when performing any action on a website.

During this course, you will gain skills and knowledge to carry out tasks in specialised fields, including developing website information architecture, implementing quality assurance processes for websites and developing representational state transfer application programming interfaces (REST APIs).

You will develop skills to become industry ready from project conception, liaising with clients, database design, cloud application development, information architecture, big data, machine learning and web application development. In addition, you will learn how to utilise project management techniques and develop advanced soft skills such as communication with clients through team work to produce the end product aligned with business needs.

On completion of your qualification your options for a dynamic career in back end programming are endless.

College	February intake	July intake
North Metropolitan TAFE Perth campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 20 units comprising:

- six core units; and
- 14 electives.

Core units

- BSBCRT512 Originate and develop concepts
- BSBXCS402 Promote workplace cyber security awareness and best practices
- BSBXTW401 Lead and facilitate a team
- ICTICT517 Match ICT needs with the strategic direction of the organisation
- ICTICT532 Apply IP, ethics and privacy policies in ICT environments
- ICTSAS527 Manage client problems

North Metropolitan TAFE Perth campus

Tuition fee $12,480 | **Resource fee** $560 | **Materials fee** $220
Duration two semesters (12 months)

Electives

- ICTDAT501 Gather, analyse and verify data from different source inputs
- BSBDAT501 Analyse data
- ICTDAT503 Use unsupervised learning for clustering
- ICTDBS507 Integrate databases with websites
- ICTPRG546 Validate application designs against specifications
- ICTPRG553 Create and develop REST APIs
- ICTPRG554 Manage data persistence using noSQL data stores
- ICTPRG556 Implement and use a model view controller framework
- ICTWEB513 Build dynamic websites
- ICTWEB514 Create dynamic web pages
- ICTWEB517 Create web-based programs
- ICTWEB521 Customise complex ICT content management systems
- ICTWEB522 Develop website information architecture
- ICTWEB525 Implement quality assurance process for websites

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, eBooks and handouts.

Facilities and equipment may include access to computer laboratories equipped with individual student workstations and lecturer screen projectors, various hardware components and personal computers. Additional access may include various software applications such as the Adobe suite, Dreamweaver, Clickview, Collaborate Launcher, Google Chrome, IE 9, Microsoft Project 2013, Microsoft Visio Pro 2013, Mozilla Firefox, Office Suite 2013, Quicktime Player, VLC media player, Vmware View, Windows 7, Git Hub Desktop, My SQL, My SQL Workbench, Netbean, Notepad++, Proxifier, Python, Ruby and Ruby on Rails, Synchroneyes, VirtualBox, Visual Studio Community and the latest versions of web browsers.

Work placement information

There is no work placement requirement for this course.

Career opportunities

- C# cloud developer (back end)
- Web production manager
- Junior data analyst

UniPathway

Options available at
tafeinternational.wa.edu.au/unipathwayfinder

Disclaimer: Course information is correct at time of publishing. For up to date information please download a course flyer from our website **tafeinternational.wa.edu.au/courses**. For admission requirements that relate to your country please visit our website **tafeinternational.wa.edu.au/admission-requirements**.

ICT50220 Diploma of Information Technology [Front End Web Development]

TAFE ID: AC26 | CRICOS code: 106321B

Why choose this course?

Build a career working with the world of the web with this qualification. Websites are a crucial aspect of any organisation across all industries and the need for talented and skilled developers is high. The specialisation focus area for this course is in front end web development, which refers to the client side development. Front end developers are responsible for the look and feel of a website.

During this course, you will gain skills and knowledge to carry out tasks in specialised fields, including building dynamic websites, building complex web page layouts and building a document using extensible markup language.

You will develop skills to become industry ready, from project conception, liaising with clients, database design, cloud application development, information architecture, big data, machine learning and web application development. In addition you will learn how to utilise project management techniques and develop advanced soft skills such as communication with clients through team work to produce the end product aligned with business needs.

On completion of your qualification in website development, you can be confident you have the skills for success in a career in front end programming.

College	February intake	July intake
North Metropolitan TAFE Perth campus	■	■

Course units

To achieve this qualification, you must demonstrate competency in 20 units comprising:

- six core units; and
- 14 electives.

Core units

- BSBCRT512 Originate and develop concepts
- BSBXCS402 Promote workplace cyber security awareness and best practices
- BSBXTW401 Lead and facilitate a team
- ICTICT517 Match ICT needs with the strategic direction of the organisation
- ICTICT532 Apply IP, ethics and privacy policies in ICT environments
- ICTSAS527 Manage client problems

North Metropolitan TAFE Perth campus

Tuition fee $12,480 | **Resource fee** $560 | **Materials fee** $220
Duration two semesters (12 months)

Electives

- ICTICT530 Design user experience solutions
- ICTPRG441 Apply skills in object-oriented design
- ICTPRG546 Validate application designs against specifications
- ICTWEB441 Produce basic client-side script
- ICTWEB452 Create a markup language document
- ICTWEB513 Build dynamic websites
- ICTWEB514 Create dynamic web pages
- ICTWEB517 Create web-based programs
- ICTWEB518 Build a document using extensible markup language
- ICTWEB519 Develop complex web page layouts
- ICTWEB520 Develop complex cascading style sheets
- ICTWEB521 Customise complex ICT content management systems
- ICTWEB522 Develop website information architecture
- ICTWEB527 Research and apply emerging web technology trends

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), PowerPoint presentations, eBooks, handouts and Linux Server.

Facilities and equipment may include access to computer laboratories and specialised software such as the Adobe suite, Dreamweaver, Clickview, Collaborate Launcher, Google Chrome, IE 9, Microsoft Project 2013, Microsoft Visio Pro 2013, Mozilla Firefox, Office Suite 2013, Quicktime Player, VLC media player, Vmware View, Windows 7, Git Hub Desktop, My SQL, My SQL Workbench, Netbean, Notepad++, Proxifier, Python, Ruby and Ruby on Rails, Synchroneyes, VirtualBox, Visual Studio Community and the latest versions of web browsers.

Work placement information

There is no work placement requirement for this course.

Career opportunities

- Intranet engineer
- eCommerce architect/Information architect
- WAP designer/developer

UniPathway

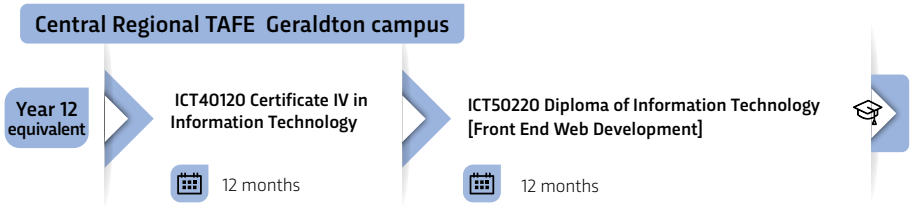
Options available at
tafeinternational.wa.edu.au/unipathwayfinder

Students can study the **ICT50220 Diploma of Information Technology [Front End Web Development]** at Central Regional TAFE Geraldton campus **(see page 15)**

Disclaimer: Course information is correct at time of publishing. For up to date information please download a course flyer from our website **tafeinternational.wa.edu.au/courses**. For admission requirements that relate to your country please visit our website **tafeinternational.wa.edu.au/admission-requirements**.

INFORMATION TECHNOLOGY

Central Regional TAFE Geraldton campus



All courses listed require an IELTS score (Academic) 6.0 with no band less than 5.0 or equivalent, unless otherwise stated.

UniPathways — Start your studies at TAFE then continue to university with a UniPathway.

ICT40120 Certificate IV in Information Technology

TAFE ID: BFF9 | CRICOS code: 106320C

Why choose this course?

Commence an exciting career in the information and communications technology (ICT) industry with this qualification. On completion of this course, you will be competent in a wide range of ICT roles and apply a broad range of skills in varied work contexts, such as problem solving skills and effective communication with others.

During your studies, you will be introduced to programming concepts and apply this to Javascript, develop skills in working with clients and working collaboratively, and apply advanced critical thinking to work processes as well as cyber security risk management.

You will gain digital media skills including, 3-D modelling and animation, 2-D interactive animations, storyboards, visual effects and graphic design. You will also implement projects across a range of browsers, platforms, devices and emerging technologies.

College	February intake	July intake
Central Regional TAFE Geraldton campus	■	

Course units

To achieve this qualification, you must demonstrate competency in 20 units comprising:

- seven core units; and
- 13 electives.

Core units

- BSBCRT404 Apply advanced critical thinking to work processes
- BSBXCS404 Contribute to cyber security risk management
- ICTICT426 Identify and evaluate emerging technologies and practices
- ICTICT443 Work collaboratively in the ICT industry
- ICTICT451 Comply with IP, ethics and privacy policies in ICT environments
- ICTPRG302 Apply introductory programming techniques
- ICTSAS432 Identify and resolve client ICT problems

Central Regional TAFE Geraldton campus

Tuition fee $12,480 | **Resource fee** $110 | **Materials fee** $0
Duration two semesters (12 months)

Electives

- CUAANM302 Create 3D digital animations
- CUAANM412 Create digital visual effects
- CUADIG401 Author interactive media
- CUAGRD411 Research and apply graphic design techniques
- CUAILL401 Develop and refine illustrative work
- CUAPPM417 Create storyboards
- CUASOU212 Perform basic sound editing
- ICTDMT405 Produce interactive animations
- ICTDMT406 Produce and edit digital images
- ICTGAM431 Design and create 3-D digital models
- ICTWEB431 Create and style simple markup language documents
- ICTWEB441 Produce basic client-side script
- ICTWEB444 Create responsive website layouts

Learning resources, facilities and equipment

Learning resources may include access to the Blackboard Learning Management System (LMS), YouTube, Adobe CC 2020 Suite, Microsoft Project, Collaborate Launcher, Google Chrome, IE 9, Mozilla Firefox and Office 365 and PowerPoint presentations.

Facilities and equipment may include access to computer laboratories, video cameras, lighting, tripods, Wacom drawing tablets, meeting rooms and a simulated business environment.

Work placement information

There is no work placement requirement for this course.

Career opportunities

- Web and multimedia designer
- Multimedia developer

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ICT50220 Diploma of Information Technology [Front End Web Development]

TAFE ID: AC26 | CRICOS code: 106321B

Why choose this course?

Build a career working with the world of the web with this qualification. Websites are a crucial aspect of any organisation across all industries and the need for talented and skilled developers is high. The specialisation focus area for this course is in front end web development, which refers to the client side development. Front end developers are responsible for the look and feel of a website.

During this course, you will gain skills and knowledge to carry out tasks in specialised fields, including building dynamic websites, building complex web page layouts and building a document using extensible markup language.

You will develop skills to become industry ready, from project conception, liaising with clients, database design, cloud application development, information architecture, big data, machine learning and web application development. In addition you will learn how to utilise project management techniques and develop advanced soft skills such as communication with clients through team work to produce the end product aligned with business needs.

On completion of your qualification in website development, you can be confident you have the skills for success in a career in front end programming.

College	February intake	July intake
Central Regional TAFE Geraldton campus	■	

Course units

To achieve this qualification, you must demonstrate competency in 20 units comprising:

- six core units; and
- 14 electives.

Core units

- BSBCRT512 Originate and develop concepts
- BSBXCS402 Promote workplace cyber security awareness and best practices
- BSBXTW401 Lead and facilitate a team
- ICTICT517 Match ICT needs with the strategic direction of the organisation
- ICTICT532 Apply IP, ethics and privacy policies in ICT environments
- ICTSAS527 Manage client problems

Central Regional TAFE Geraldton campus

Tuition fee $12,480 | **Resource fee** $150 | **Materials fee** $0
Duration two semesters (12 months)

Electives

- CUADIG512 Design digital applications
- CUAPOS401 Edit screen content for fast turnaround
- ICTDBS507 Integrate databases with websites
- ICTDMT407 Incorporate video assets into media presentations
- ICTICT530 Design user experience solutions
- ICTWEB441 Produce basic client-side script
- ICTWEB444 Create responsive website layouts
- ICTWEB447 Build basic website using development software and ICT tools
- ICTWEB452 Create a markup language document
- ICTWEB514 Create dynamic web pages
- ICTWEB518 Build a document using extensible markup language
- ICTWEB513 Build dynamic websites

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» ICTWEB519 Develop complex web page layouts
» ICTWEB520 Develop complex cascading style sheets

Learning resources, facilities and equipment
Learning resources may include access to the Blackboard Learning Management System (LMS), L links to external resources, handouts and guides.

Facilities and equipment may include access to graphics tablets, desktop PC's, keyboards, monitors, still cameras, video cameras, card readers and tripods..

Work placement information
There is no work placement requirement for this course.

Career opportunities
» eCommerce architect/Information architect
» Intranet engineer
» WAP designer/developer

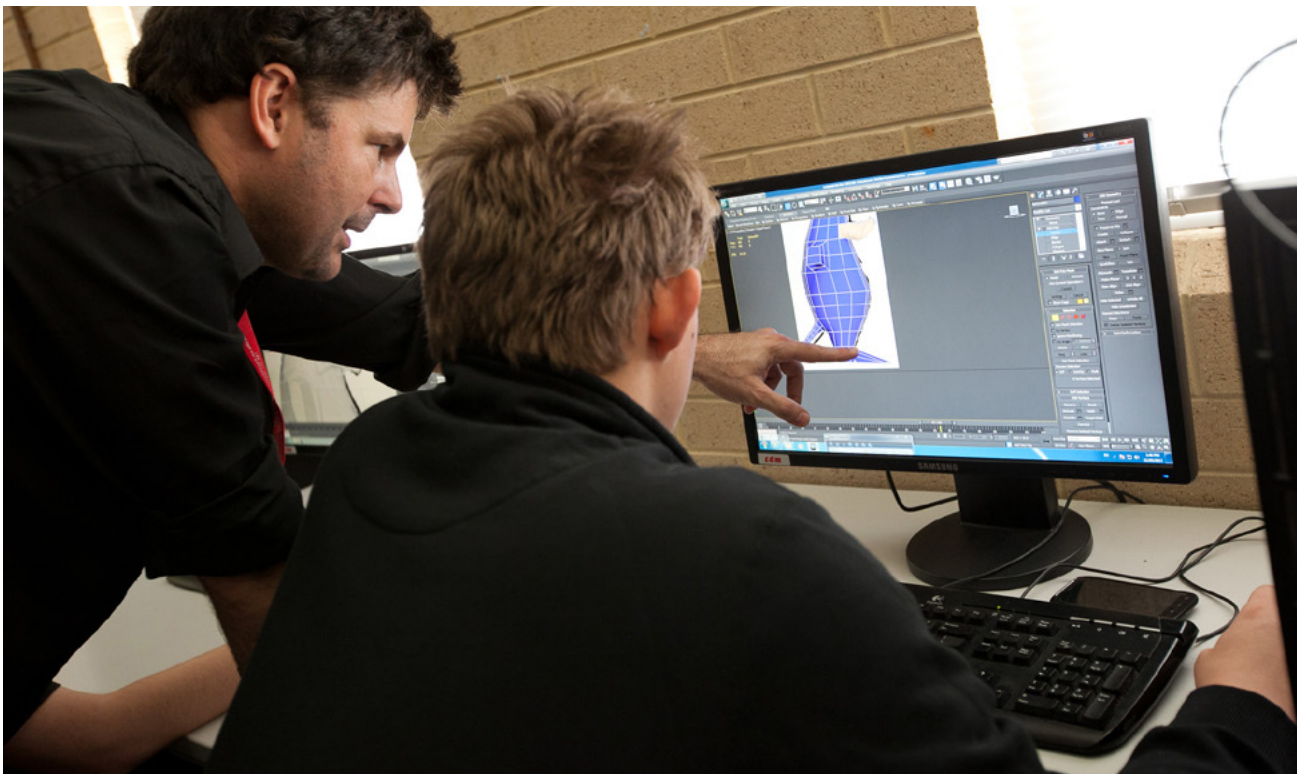
UniPathway
Options available at
tafeinternational.wa.edu.au/unipathwayfinder

Fee information
There are three types of fees required.

» **Tuition** – International student tuition fees are set on a commercial basis and are paid as a whole of course fee.
» **Resource** – These are mandatory fees paid to your TAFE college each semester. These fees are a fixed payment determined by each unit of enrolment. Resources fees are charged for items you will use during your course, for example if you are studying a hospitality course it will be the food that you use; or an art and design course may include paint.
» **Materials** – These fees are for materials you will keep for use during and after your studies, for example personal protective equipment, text books, uniforms etc.

Tuition fees are current at the time of printing and reviewed annually. Resource and materials fees may apply and these vary between campus locations. For more information about fees please visit **tafeinternational.wa.edu.au/fees**.

Work placement hours
Work placement hours are subject to change and may vary between campus locations.



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TAFE International Western Australia, East Perth TAFE campus, Building B, Level 2, 140 Royal Street, East Perth WA 6004
tafeinternational.wa.edu.au | +61 8 9218 2100 | RTO provider number 52395 | CRICOS provider code 00020G | Issue date: 19 April 2024 | Version 1.2

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