

Information Technology



Monash IT graduates know the back end of a computer like the palm of their hand, but they also know the front end, thanks to a program that places most students in a real time business setting.

What makes Information Technology at Monash special?

- **All IT under one banner:** Monash is the only research-intensive, Group of Eight University to have a dedicated IT faculty.
- **Graduate employability:** Monash IT graduates are highly valued by employers across all industries.
- **Course flexibility:** Common core units across all Monash IT degrees give students a solid foundation so they can specialise in an area of interest.
- **Industry partnerships:** Many students work on projects and undertake industry-based learning placements with leading companies.
- **Global recognition:** An IT degree from Monash is recognised around the world for its quality and innovation.

Research centres

- Centre for Decision Support and Enterprise Systems Research (CDESR)
- Centre for Distributed Systems and Software Engineering (DSSE)
- Centre for Organisational and Social Informatics (COSI)
- Centre for Research in Intelligent Systems (CRIS)
- Centre for Multimedia Computing, Communications and Applications Research (MCCAR)

Professional recognition

- Australian Computer Society (all undergraduate degrees)
- Engineers Australia (Bachelor of Software Engineering)

Students of the Bachelor of Information Technology and Systems who wish to obtain professional recognition from the Australian Society of Archivists, the Records Management Association of Australia, or the Australian Library and Information Association, will be directed towards selection of relevant units.

Preparing highly-sought graduates

Industry-Based Learning program (IBL)

In today's highly competitive market, employers want the best graduates with a broad foundation in their discipline, technical skills, and strong interpersonal skills as well as a solid understanding of business issues. Companies want it all, and are competing to offer better salaries, working conditions and advancement opportunities to attract the best candidates.

The Monash University Faculty of Information Technology has industry experience projects across all of its undergraduate courses. Students work in teams on IT projects for real clients and the final product is evaluated as part of their course.

The faculty has recently expanded its extremely successful Industry-Based Learning program for local students. They are placed with partner organisations for one or two 22-week periods to gain the most valuable work experience during employment. Almost all IBL students have received a job offer with at least one of the host organisations.

The program is now offered to students in the Bachelor of Business Information Systems, Bachelor of Computer Science, Bachelor of Information Technology and Systems and Bachelor of Software Engineering. For further information on IBL in the Faculty of Information Technology visit www.infotech.monash.edu/ibl



Further and deeper

The Faculty of Information Technology covers the whole IT spectrum from engineering to social science. Specific strengths of leading researchers are in:

- Computing science
- Software engineering
- Information systems, and
- Information and knowledge management

IT research has a multi-disciplinary, multi-campus and multi-national approach, providing Monash with a unique capacity to reach out further and deeper than any other institution in Australia.

The Faculty of Information Technology's five research centres provide the focus for the University's internationally-recognised research strengths in intelligent systems, distributed systems and software engineering, organisational and social informatics, business intelligence and multimedia computing, and are the hubs of our research networks.



Graduate profile

Chitrleka Appalanaidu

Software engineer
Redflex Traffic Systems
Bachelor of Computer Science (2006),
Honours (2007)

After graduating from Monash, Chitrleka obtained employment at Redflex Traffic Systems, a leading Melbourne-based company in vehicle monitoring and enforcement services. Beginning as an IT administrator, she changed positions to her current role. As a software engineer she participates in all phases of the software development cycle, particularly in writing software for traffic light cameras.

"My employer and colleagues have a high regard of my Monash IT degree. They were impressed with the depth and quality of the teaching including the study materials at Monash University."

Contact

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Bachelor of Business Information Systems

From enterprise resource planning to data warehousing, to the boundless resource of the internet, information technology has become a critical component of business. Professionals who can coordinate IT applications across an organisation play a pivotal role in its success.

This degree focuses on developing and applying information technology solutions to business problems and prepares students for leadership roles in IT management.

The majority of domestic students receive a \$36,000 scholarship and undertake two 22-week industry placements in the Industry-Based Learning (IBL) stream of the degree.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Business information analysis

Level Two

Systems analysis and design – IT project management – Business process modelling and workflow – Decision support systems fundamentals – e-Business technologies – Computer models for business decision making

Level Three

Business intelligence and data warehousing – Intelligent decision support systems – e-Business systems – Enterprise systems

Career Outlook

This degree leads to a broad range of graduate careers including business analyst, IT consultant, management consultant, project manager, systems analyst, business management roles, business systems and integration consultant and security and privacy consultant.

The Industry-Based Learning stream of the degree creates graduates who are prepared for immediate employment.

Course Details

Three years full-time, six years part-time

Clayton campus

2009 clearly-in ENTER: 85.30

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English, and a study score of at least 25 in mathematics (any).

2009 CSP fee: \$7256

2009 IB score: 31

IB prerequisites: English and mathematics (any) at a minimum of grade four at standard level.

Bachelor of Computer Science

Computer science is concerned with the scientific design and use of computer hardware and software. It is a broad discipline, encompassing software design and programming, the actual computing machinery, the theoretical foundations, and all of the applications of computing that pervade modern society.

This course provides an in-depth study of computing with an emphasis on the software, hardware and theory of computation. It also explores software design and programming, computer hardware, the theoretical foundations of computing and its present and potential applications.

High-achieving domestic students may apply to receive a \$15,000 Industry-Based Learning scholarship and experience a 22-week industry placement during the third year of the degree.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Computer science – Mathematics for computer science

Level Two

Systems analysis and design – Networks and data communications – Database – Algorithms and data structures – Theory of computation – Computer systems

Level Three

IT project management – Analysis and design of algorithms – Computer science project, or Software engineering project – Software engineering: architecture and design

Career Outlook

Graduates are in demand and may gain employment in a wide variety of roles such as software engineers, systems analysts, technology consultants, and algorithm designers. Successful graduates often perform research and development in exciting areas such as artificial intelligence, bioinformatics, networking and cryptography, computer games, multimedia, and robotics.

Course Details

Three years full-time, six years part-time

Clayton and Sunway campuses

2009 clearly-in ENTER: Clayton 78.75

Sunway 70.00

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English, and a study score of at least 20 in mathematical methods or specialist mathematics or 35 in further mathematics.

2009 CSP fee: \$6466

2009 Tuition fee (Sunway): RM 30,280

2009 IB score: Clayton 28

Sunway 27

IB prerequisites: English and mathematics (SL or HL) at a minimum grade of four at standard level.

Bachelor of Information Technology and Systems

Information technologies touch every aspect of life – in work, entertainment and recreation. There are few industries where skilled professionals are as globally mobile as those who work in the IT field.

A qualification from a university of international quality such as Monash, with a presence on three continents, serves IT professionals well.

This degree has been designed to be innovative, relevant and adaptable to changing industry needs. Students can tailor the course to suit their own interests and ambitions by selecting from ten majors: Applications development and networks, Business systems, Information management, Information systems, Internet systems, Multimedia applications, Multimedia games development, Security, Systems development and Net-centric computing. There is also the option to undertake double majors. Alternatively students can select units more broadly by completing the general version of the degree.

High-achieving domestic students may apply to receive a generous Industry-Based Learning scholarship and experience a 22-week industry placement during the third year of the degree.

Bachelor of Information Technology and Systems (General form)

The BITS general form provides the widest possible choice of subjects available. This form suits students who wish to select subjects from across a number of areas of information technology study, rather than focusing on a single specialist area.

Course Outline

Students complete the following core subjects:

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Systems analysis and design – IT project management – Industrial experience project

Students select further information technology subjects from any campus offerings, and select free electives from any faculty, on any campus.

Career Outlook

IT professionals are found in every industry and workplace, from business, government and health care, to sports and entertainment. Employers seek technical, practical and people skills in all new employees. This degree combines these skills to best position graduates for a great number of entry-level jobs such as computer programming, systems analysis and design and database administration.

Course Details

Three years full-time, six years part-time

Berwick, Caulfield, Gippsland, South Africa*, Sunway campuses

Also available for off-campus study

2009 clearly-in ENTER: Berwick consult faculty
Caulfield 70.35
Gippsland consult faculty
South Africa consult faculty
Sunway 70.00

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 Tuition fee (Sunway): RM 30,280

2009 IB score: Berwick consult faculty
Caulfield 25
Gippsland consult faculty
South Africa consult faculty
Sunway 24

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

* Degree name pending HEQC approval.

Bachelor of Information Technology and Systems (Applications Development and Networks major)

Networks are the single most powerful technology driving the present universal use of computers, and the internet is a vital part of daily life for almost all sectors of the community.

This major is for technically minded problem-solvers who like to get behind the scenes, and want to build their knowledge in developing computer systems and using networks and web technology.

Students learn how to build new systems and applications from the ground up using state-of-the-art technologies and tools.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications

Level Two

Systems analysis and design – IT project management – Data structures and algorithms – Networks and data communications 2 – Web programming – Computer programming 2

Level Three

Multimedia concepts and applications, or Computer network design and deployment – Software engineering – Operating environments -Industrial experience project

Career Outlook

Graduates work as programmers, system analysts, database administrators and IT project developers in areas such as education, graphic design, publishing, marketing, business or the entertainment sector.

Course Details

Three years full-time, six years part-time

Gippsland and South Africa* campuses

Also available for off-campus study

2009 clearly-in ENTER: Gippsland consult faculty
South Africa consult faculty

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 IB score: Gippsland consult faculty
South Africa consult faculty

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

* Degree name pending HEQC approval.

Bachelor of Information Technology and Systems (Business Systems major)

Increasingly computers and information systems are being used to understand, model and solve complex problems in the business world. Any business, be it small or large in-scale, can potentially benefit from harnessing computers, networks and databases.

This major is ideal for future entrepreneurs or managers who want expertise to provide effective business solutions. Students learn how to lead IT teams in developing and managing an organisation's systems.

Students can choose study options that will develop strong business skills or deeper technical knowledge, or both.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – e-Commerce systems – Quantitative analysis (Gippsland) or Business statistics (South Africa)

Level Two

Systems analysis and design – IT project management – Web programming – Computer models for business decisions

Level Three

Applications of data mining – Information systems management – Infrastructure for e-Commerce – Information and network security – Industrial experience project

Career Outlook

Graduates of the Business Systems major work as systems analysts, information systems managers, business analysts, e-commerce consultants, IT consultants, analyst programmers, or database designers and administrators. This major can be combined with the Applications Development and Networks major to further enhance career opportunities.

Course Details

Three years full-time, six years part-time

Gippsland and South Africa* campuses

Also available for off-campus study

2009 clearly-in ENTER: Gippsland consult faculty
South Africa consult faculty

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 IB score: Gippsland consult faculty
South Africa consult faculty

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

* Degree name pending HEQC approval.

Bachelor of Information Technology and Systems (Information Management major)

Today more than ever, business and government are recognising the strategic importance of managing information in a timely and effective manner.

This major has been designed for students who want to use IT to manage information content, resources and services in business, government or community sectors to meet the needs of individuals, organisations and society.

Students gain an understanding of fundamental Information Management concepts and principles, while completing specialised subjects in librarianship, records management or archival systems.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Information use and management

Level Two

Systems analysis and design – IT project management – Web-based information systems – Information management in organisations – Web content management

Level Three

Industrial experience project – Social informatics – Knowledge management

Career Outlook

Information management prepares students for a range of careers including information manager, knowledge manager, information architect, web content manager, information service manager, archivist, librarian, and records manager.

Course Details

Three years full-time, six years part-time

Caulfield campus

2009 clearly-in ENTER: 71.10

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 IB score: 25

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

Bachelor of Information Technology and Systems (Information Systems major)

Today, most IT expenditure involves organisation-wide systems that support various business functions. This expanding use of information systems has created many challenges for the business community.

This major is designed to address these challenges in the development, implementation, and management of these systems.

The course has a strong practical focus to ensure graduates are ready for work.

Students develop and practise a range of skills, which they apply to the analysis, design and implementation of a variety of types of information systems.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Fundamentals of information systems

Level Two

Systems analysis and design – IT project management – Systems design and implementation – Analysis and design methods – Electronic business – Web-based information systems

Level Three

Industrial experience project – Human-computer interaction – Information technology strategy and management – Systems integration

Career Outlook

Graduates have a portable set of skills that lead to a range of career options such as systems analyst, IT project manager, web developer, and IS manager.

Course Details

Three years full-time, six years part-time

Caulfield and Sunway campuses

2009 clearly-in ENTER: Caulfield 70.00

Sunway 70.00

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 Tuition fee (Sunway): RM 30,280

2009 IB score: Caulfield 25

Sunway 24

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

Bachelor of Information Technology and Systems (Internet Systems major)

Using the world-wide-web has become an integral part of many people's lives. The continued growth of the internet has seen a new phase of constructing computer systems that exploit its seemingly endless capabilities. There is an on-going demand for powerful, yet flexible, internet-based systems that allow users to perform commercial, educational, or social networking tasks.

This major provides a thorough grounding in the technical aspects of the internet and developing internet applications, and students complete a significant group project building an industry-strength internet site.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Web systems

Level Two

Systems analysis and design – IT project management – Network administration – Web systems – Electronic business

Level Three

Information and network security – Web systems – Industrial experience project – Service oriented computing – Human-computer interaction

Career Outlook

Graduates can pursue their interests across a range of information technology careers including internet development, Java or .NET development, corporate webmaster, mobile applications development, mobile commerce development, analyst or programmer.

Course Details

Three years full-time, six years part-time

Caulfield and South Africa* campuses

2009 clearly-in ENTER: Caulfield 70.75

South Africa consult faculty

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 IB score: Caulfield 25

South Africa consult faculty

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

* Degree name pending HEQC approval.

Bachelor of Information Technology and Systems (Multimedia Applications major)

Our modern society has seen an exponential growth in web activity, digital communication, entertainment and training. As just one example, smart mobile devices represent a convergence of many of the new digital media through their role as web browsers, game consoles, music devices, video playback platforms, GPS devices and much more.

The multimedia major provides students with the skills to manipulate text, graphical images, sound, video and animation to produce exciting digital content to supply this growth. The major includes a year-long final project in which students work in teams to develop a full commercial quality multimedia system.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Website authoring – Visual communication – Multimedia imaging (moving image studies)

Level Two

Systems analysis and design – IT project management – Digital media authoring – Foundations of 3D – Human computer interaction for multimedia – Sound and video

Level Three

Animation and FX or Advanced web site authoring – Digital video post-production or Information visualisation – Interactive environments – Principles of educational multimedia – Studio

Career Outlook

Graduates are prepared for careers in IT across the spectrum of the industry. They work as web developers, 3D-modellers, animators, educational developers, multimedia developers or managers

Course Details

Three years full-time, six years part-time

Berwick campus

2009 clearly-in ENTER: Consult faculty

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 IB score: Consult faculty

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

Bachelor of Information Technology and Systems (Multimedia Games Development major)

Success in the dynamic field of games development requires a strong theoretical basis along with practical skills in games design and technology.

Although developers should have imagination and flair, they must be good logical thinkers and have a strong interest in computer programming.

The major teaches students to use critical thinking, logic, communication and problem solving skills to manage the many challenges that occur in the games development environment.

Students will also learn about multimedia, graphics and animation required for professional game design.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Website authoring – Visual communication – 3D design and visualisation

Level Two

Systems analysis and design – IT project management – Digital media authoring – Computer programming – Game implementation and techniques – Games programming using C++

Level Three

Interactive environments – Studio – Artificial Intelligence for gaming – Creating narrative in multimedia

Career Outlook

Graduates will have a sound knowledge of games development programming, coupled with skills in the wider multimedia area. They can work as games engine programmers, graphics or special effects programmers, audio programmers, artificial intelligence programmers, games designers, game testers, or multimedia developers.

Course Details

Three years full-time, six years part-time

Caulfield campus

2009 clearly-in ENTER: 72.05

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 IB score: 25

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

Bachelor of Information Technology and Systems (Net-centric Computing major)

The modern world runs on networks – local area wired networks, wireless networks, phone networks and the internet. Net-centric computing covers a range of specialised areas concerned with operating and developing these vital networks.

With the advent of the networked world there is an on-going need for specialists in fields such as network applications, mobile computing and internet computing.

This degree covers all the fundamentals of computing, but specifically in conjunction with networks.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Web systems

Level Two

Systems analysis and design – IT project management – Network administration – Network standards and specifications – Web systems – Computer programming

Level Three

Mobile middleware – Information and network security – Industrial experience project – Computer network design and deployment

Career Outlook

Graduates work as IT developers, programmers, administrators, managers and designers in areas where information and communications technologies are used – government, education, banking and finance, manufacturing, retailing, and health.

Course Details

Three years full-time, six years part-time

Caulfield and Sunway campuses

2009 clearly-in ENTER: Caulfield consult faculty

Sunway 70.00

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 Tuition fee (Sunway): RM 30,280

2009 IB score: Caulfield consult faculty

Sunway 24

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

Bachelor of Information Technology and Systems (Security major)

The prosperity of our daily lives can depend on the security of information held in computers and computer networks. Unfortunately, as IT has become more important and more prevalent, security threats to businesses, governments and individuals have increased. These threats include identity theft, fraud, and acts of vandalism against stored and transmitted information.

This major prepares students to identify and assess security risks, and to develop network and software security systems. Students gain important knowledge in technologies and techniques needed to safeguard valuable resources now and into the future.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Introduction to security

Level Two

Systems analysis and design – IT project management – Network administration – Web systems – Computer programming – Operating systems and the Unix environment

Level Three

Information and network security – Industrial experience project – Secure and trusted software systems – Identity management

Career Outlook

The universal use of computers and the internet to conduct and record the actions of large and small businesses means there is great demand for experts who can keep sensitive information safe. Graduates of this major work as information security analysts and engineers, network security managers, and IT security consultants.

Course Details

Three years full-time, six years part-time

Caulfield campus

2009 clearly-in ENTER: 70.30

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 IB score: 25

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

Bachelor of Information Technology and Systems (Systems Development major)

This major teaches the skills needed to develop computer applications so that graduates are well prepared for immediate employment in IT.

There is a focus on software development and the computer technology that supports systems development.

In the final year of the course students develop a real system, usually internet based or distributed, for an external client either in business, commerce or government.

Course Outline

Level One

Computer systems – Computer programming – IT in organisations – Database – Networks and data communications

Level Two

Systems analysis and design – IT project management – Software engineering practice – Systems design and implementation – Web systems – Computer programming – Operating systems and the Unix environment

Level Three

Industrial experience project – Enterprise programming – Data mining or Applications with C++ – Database design and administration

Career Outlook

Graduates can pursue a career in systems design, systems implementation, computer programming, database design and administration, systems analysis, project management and web development.

Course Details

Three years full-time, six years part-time

Caulfield campus

2009 clearly-in ENTER: 71.25

VCE prerequisites: Units 1 and 2 – general mathematics or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

2009 CSP fee: \$7236

2009 IB score: 25

IB prerequisites: English and mathematics (any) at a minimum grade of four at standard level.

Bachelor of Software Engineering

Software engineering is a young, challenging discipline that is still evolving as information technologies continue to open up new areas of exploration and potential. Engineers mix the theory and practice of computer science, engineering and traditional IT disciplines to create software that is reliable and works efficiently on real machines.

This course explores the design, construction and engineering of large complex software systems that meet information processing challenges within constraints such as cost, time and risk management.

High-achieving domestic students may apply to receive a generous Industry-Based Learning scholarship and experience a 22-week industry placement during the third year of the degree.

Course Outline

Level One

Computer systems – Computer programming – Engineering profession – Computer science – Introduction to software engineering – Mathematics for computer science

Level Two

Systems analysis and design – Algorithms and data structures – Networks and data communications – Database – Theory of computation – Computer systems – Software engineering practice – Technical documentation for software engineers

Level Three

Formal specification for software engineering – System tools and programming languages – Software engineering: architecture and design – Multimedia programming and the world-wide-web – IT project management – Parallel and distributed systems

Level Four

System verification and validation, quality and standard – Software engineering studio project. Other subjects will depend on whether the degree is completed as an honours degree or a pass degree.

Career Outlook

This degree is intended to produce world-class graduates in this rapidly developing discipline. Graduates will be prepared for careers across all industries as applications developers, internet developers, programming specialists, systems programmers, and software designers, engineers, architects, consultants and developers.

Course Details

Four years full-time, eight years part-time

Clayton campus

2009 clearly-in ENTER: 82.55

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English, and a study score of at least 20 in mathematical methods or specialist mathematics or 35 in further mathematics.

2009 CSP fee: \$6508

2009 IB score: 30

IB prerequisites: English and mathematics (SL or HL) at a minimum grade of four at standard level.

Bachelor of Business and Commerce/ Bachelor of Information Technology and Systems

The use of technology is fundamental in contemporary business practice and the ability to introduce technological solutions to address business problems is of increasing importance. Students in this double degree course receive a thorough grounding in business and IT. Both the business and commerce and IT components can be extensively tailored to meet students' particular interests and future career path.

Course Outline

Compulsory units include the following:
Principles of accounting and finance – Business law – Introductory microeconomics – Business statistics – Introduction to management – Marketing theory and practice – Computer systems – Computer programming – IT in organisations – Database – Networks and data communications – Systems analysis and design – IT project management.

Students select a business and commerce major from the appropriate campus. For more information about majors, check the table on page 57.

Further IT units can be drawn from any of the disciplines available in the IT faculty across any campus, thus offering a very wide choice.

Berwick

Web site authoring – Digital media authoring – Foundations of 3D – Human computer interaction for multimedia – Sound and video – Animation and FX – Digital video post production – Information visualisation – Interactive environments – Principles of educational multimedia – Studio – Advanced web site authoring – Visual communication – 3D Design and visualisation

Gippsland

e-Commerce systems – Data structures and algorithms – Web programming Computer models for business decisions – Applications of data mining – Information systems management – Infrastructure for e-commerce – Multimedia concepts and applications – Information and network security – Software engineering – Operating environments – Industrial experience project

Career Outlook

Students will be prepared for employment in many areas of business and information technology in an environment characterised by high worker mobility, trans-national company structures and global systems.

Course Details

4.5 Years Full-time

Berwick, Gippsland campus

2009 Clearly-in Consult faculty

VCE prerequisites: Units 1 and 2 – any two units from general mathematics and/or mathematical methods (either). Units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.

IB score: Consult faculty

IB prerequisites: English and one of mathematical studies or further mathematics SL or mathematics HL or mathematics SL, minimum grade of 4 required.

Honours

Honours at Monash is ideal for students looking to enhance their career options, prepare for further postgraduate study, gain valuable research experience, or develop in-depth knowledge in an area of personal interest.

Honours graduates have enhanced employment opportunities as employers recognise a degree with honours as a guarantee of additional skills, knowledge and achievement. Honours graduates often progress to further study, utilising research skills gained during their honours year.

An honours degree allows high-achieving students to complete industry-standard research in a field of their own choosing.

Students are expected to develop higher-level skills in conceptual, methodological and implementation issues of IT-related research, and to conduct research in a selected area using the concepts and principles learned.

The Faculty of Information and Technology offers honours studies in:

Bachelor of Information Technology and Systems
Bachelor of Business Information Systems
Bachelor of Computer Science
Bachelor of Software Engineering

For further information visit:

www.infotech.monash.edu/honours

Other courses to consider

Bachelor of Arts/Bachelor of Information Technology and Systems – p28
Bachelor of Arts (Communication)/Bachelor of Information Technology and Systems – p31
Bachelor of Arts/Bachelor of Business Information Systems – p28
Bachelor of Arts/Bachelor of Computer Science – p27
Bachelor of Commerce/Bachelor of Business Information Systems – p51
Bachelor of Science/Bachelor of Computer Science – p118



Student profile

David Wei

Bachelor of Business Information Systems

IBL stream – PricewaterhouseCoopers

“Monash University enjoys a successful reputation for its high-quality education in Victoria, in Australia and throughout the world. I wanted to become a part of that success. Also during my second year, I was involved in the University's student leadership program – Ancora Imparo (page 15). This program provided me with a view of the many issues affecting the world today. It was also a great experience to meet fellow students from different courses and different campuses.”