UNDERGRADUATE
INFORMATION
TECHNOLOGY

2014

Melbourne | Geelong | Warrnambool | Off campus

COMPUTER SCIENCE AND SOFTWARE DEVELOPMENT

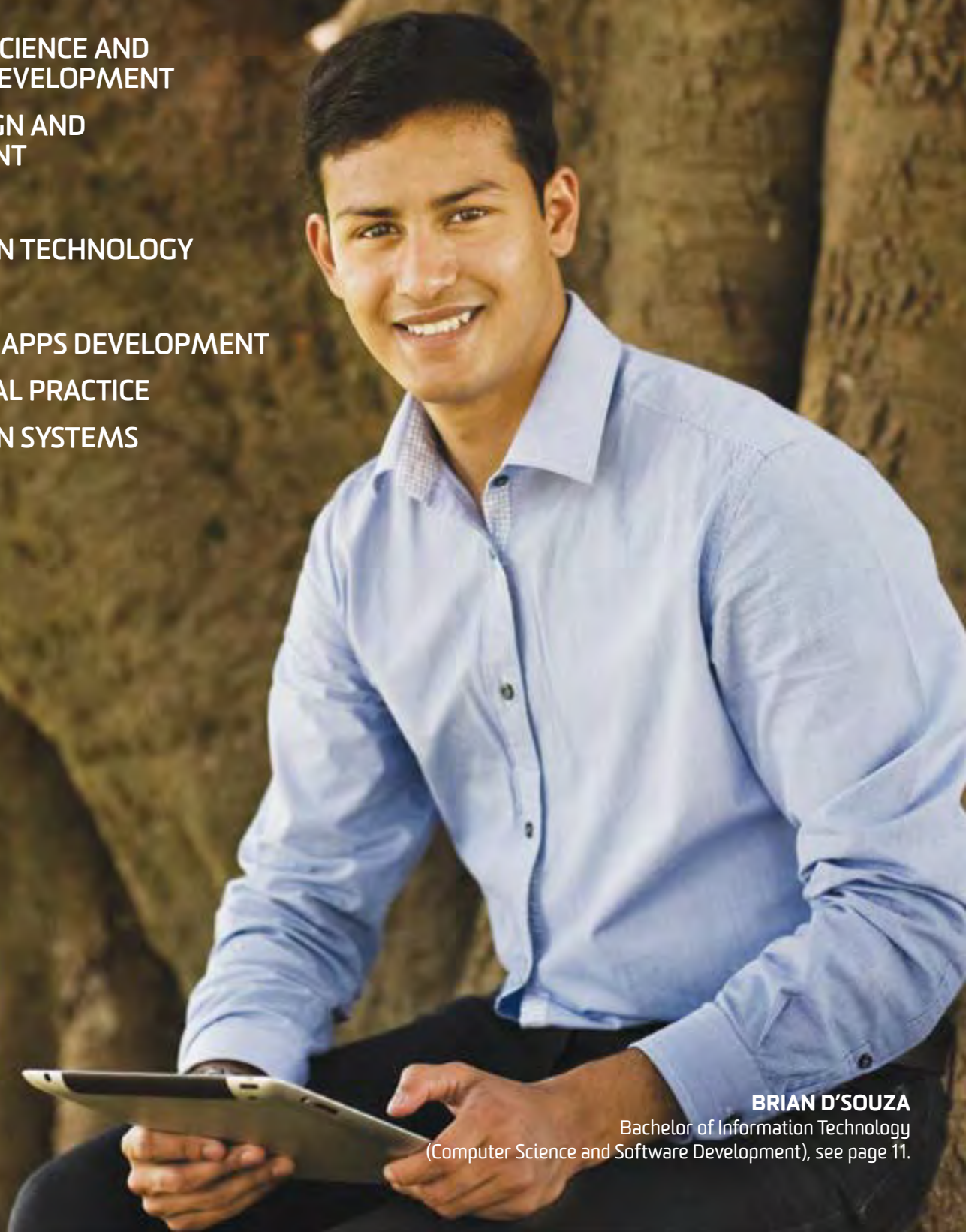**GAMES DESIGN AND DEVELOPMENT**

HONOURS

INFORMATION TECHNOLOGY

IT SECURITY

MOBILE AND APPS DEVELOPMENT

PROFESSIONAL PRACTICE

INFORMATION SYSTEMS

DEAKIN
UNIVERSITY AUSTRALIA
Worldly

BRIAN D'SOUZA
Bachelor of Information Technology
(Computer Science and Software Development), see page 11.

EXPLORE THE WORLD OF INFORMATION TECHNOLOGY AT DEAKIN

If you want a career that gives you the opportunity to be at the forefront of technology and business with employment opportunities in just about every industry, a Deakin Information Technology (IT) or Information Systems (IS) course is a great start.

Deakin's IT and IS courses aim to produce outstanding graduates who are well equipped with the skills and knowledge needed to succeed in the industry. You will have the opportunity to gain hands-on experience as well as a firm foundation of theoretical knowledge.

Our IT and IS degrees emphasise cutting-edge technology and practical learning, and reflect our strong links with industry and business. You will use state-of-the-art facilities and be able to choose from a wide range of study areas, allowing you to tailor your degree to your interests. For example, with Deakin's Bachelor of IT you can choose your own majors or specialise from day one in computer science and software development, mobile and apps development, games design and development, or IT security. Our IS course focuses on the business side of technology and our graduates can enjoy diverse careers, including banking, mining, health care and more. There is even a new suite of combined courses that enable you to study information systems alongside a wide range of other disciplines, such as commerce, health and law.

IT and IS at Deakin also offer flexible study options. You can choose to study on campus (located learning) or off campus, full time or part time.

Industry representatives from organisations such as Telstra and IBM contribute to the development of our courses, ensuring they are tailored to produce the graduate skills employers are looking for.

This booklet will tell you about the courses we offer in IT and IS, their key features, as well as the career opportunities you can expect from completing a degree at Deakin.

Choosing a university course is an important decision – and we are here to help. We encourage you to gather as much information as possible to help you make an informed decision about which course is best for you.

If you need more information, please contact us on 1300 DEGREE (1300 334 733), email enquire@deakin.edu.au or visit **deakin.edu.au.**

We look forward to seeing you at Deakin!

The Deakin team

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Using this booklet

This booklet provides you with detailed information about Deakin's undergraduate courses in information technology (for domestic students), including study areas, career opportunities, course overviews and course structures. It is designed to be read in conjunction with the *2014 Undergraduate Course Guide*, which gives an overview of all of Deakin's undergraduate courses, study options, support services and campuses.

Deakin University also produces course guides specifically for international students. To request a copy phone Deakin International on +61 3 9627 4877 or email deakin-international@deakin.edu.au.

Applying to Deakin is easy

You can apply for most of Deakin's undergraduate courses (bachelor's degrees) commencing in Trimester 1 through the Victorian Tertiary Admissions Centre (VTAC). We also offer courses commencing at other times of the year, for example Trimester 2 (commencing in August) and Trimester 3 (commencing in November), that require a direct application to Deakin. Whether you are a current Year 12, TAFE, private provider or mature-age student, currently studying at another university, in the workforce, taking a gap year or a graduate, visit **www.vtac.edu.au** or **deakin.edu.au/study-at-deakin** for details.

Find out more

If you need more information, please phone 1300 DEGREE (1300 334 733), email enquire@deakin.edu.au or visit **deakin.edu.au**.

You can also connect with us on social media, order other publications and visit us. Turn to page 32 for more information.

INFORMATION TECHNOLOGY AT DEAKIN

Gain hands-on experience

As a Deakin Information Technology (IT) or Information Systems (IS) student, you will gain an edge in the job market through the combination of hands-on experience and high-level theoretical training that our courses provide. Whether developing state-of-the-art computer games or studying business applications of information systems, you will learn by doing, rather than just seeing.

The Science, Engineering and Built Environment Work-Integrated Learning (WIL) Program provides the opportunity to apply to undertake a full-time or part-time discipline-specific industry placement. The WIL placements are designed as elective units and are credited towards your degree. Some placements also come with an industry-funded scholarship.

Additionally, Deakin offers a Bachelor of Information Technology (Professional Practice) course that includes a 6–12 month Work-Integrated Learning placement as part of the degree.

Students enrolled in the Bachelor of Information Systems have the opportunity to gain business experience in their area of specialisation through the Business Internship Program.

For more information about WIL opportunities in IT and IS, including how Deakin students apply, please visit deakin.edu.au/sebe/students/wil or deakin.edu.au/buslaw/wil.

Acquire the skills you need

As a graduate of a Deakin IT or IS course you are likely to be a sought-after employee. Our IT and IS programs reflect industry needs, offering areas of study that are of crucial importance to IT development and applications.

Practical experience is complemented by first-class teaching in a friendly environment, with accessible lecturers and small class sizes.

Industry placements and internships are another feature of Deakin courses, allowing you to build industry networks and gain valuable work experience before you graduate.

Learn in state-of-the-art facilities

Experiential learning is a key feature of Deakin's IT and IS courses. For example, if you are studying games design and development, you will have access to games studios where you can interact and develop team-based projects.

You will also have access to top software in fully equipped computer laboratories right from the beginning of your course.

Our courses have industry input

The University has strong links with industry leaders through our representatives from several organisations including IBM, Telstra, Microsoft, ANZ and Computershare. These industry representatives help us regularly revise our curriculum to ensure it remains relevant to the needs of industry. This helps you to build the career of your choice in IT or IS, providing the opportunity to work for a range of Australian and international corporations.

Learn from expert staff

Deakin's teaching and research staff are experts in their respective fields, with broad international links and connections with industry.

We offer contemporary courses

A key feature of Deakin's IT and IS courses is that they address contemporary needs. For example, in a world where online security is vital for all businesses, Deakin offers you the opportunity to study security across a wide spectrum. You can study with a business security management focus, developing policies or models to protect organisations, or with an IT security focus, including implementing security technologies into organisations to protect against hackers or credit card fraud.

Our courses offer professional accreditation

Many of Deakin's IT and IS degrees are accredited by the Australian Computer Society (ACS), providing international recognition and allowing graduates to be eligible for membership of the ACS. Deakin's IT courses also give you the option to study units leading to CISCO certification as part of your normal course sequence.

You can tailor your degree

At Deakin you can tailor your IT or IS course to suit your career aspirations by choosing between study options offered through the Faculty of Science, Engineering and Built Environment, the Faculty of Business and Law or in other disciplines within the University. For example you may choose to focus on IT, or combine IT with engineering or IS. Some courses also allow you to study on or off campus, giving you choices about how and when you study.

AN ELITE ATHLETE FRIENDLY UNIVERSITY

As a member of the Elite Athlete Friendly University (EAFU) Network, Deakin is dedicated to supporting elite athletes in their quest to achieve academic success alongside the demands of training and competition.

We enable recognised elite athlete students to negotiate assessment deadlines, lecture and tutorial attendance and study loads to integrate with sporting commitments. Student athletes may also be able to take several leaves of absence in order to meet sporting commitments and extend the amount of time normally allowed to complete a course.

For more information, please visit deakin.edu.au/future-students/why-deakin/eafu.

Experience the world while you study

Give your degree a competitive edge with a Deakin Study Abroad Program. Our Study Abroad and Exchange Office offers various programs including exchange, study abroad, short-term study programs, study tours and international volunteering opportunities, which allow you to study overseas for a few weeks, a trimester, or a year as part of your Deakin degree.

For more information on study abroad, please visit deakin.edu.au/current-students/student-exchange/exchange.

We offer flexible study options

Genuine flexibility is a key feature of our courses. You can study most courses either full time or part time and choose specialist areas as you progress through your course to tailor your degree to match your career goals. Deakin's use of technology in course delivery, our trimester system and deferment options enhance our flexible approach to education, ensuring your study fits in with your work and lifestyle commitments. For more information, please visit deakin.edu.au/online-offcampus.

Study honours

Honours is a specialised year of study that allows you to draw together the theory and practical skills gained in previous undergraduate studies. It allows you to develop an in-depth knowledge of your particular discipline through research, additional coursework and training in research techniques.

Honours can offer you a competitive edge in the job market along with a pathway into a higher degree. Many honours students go on to complete a PhD or other advanced qualifications.

Opportunities exist for high-achieving students to enrol directly into a four-year IT honours degree, the Bachelor of Information Technology (Honours). Alternatively, eligible students can apply to enrol in a one-year honours program on completion of their undergraduate degree.

For more information on honours degrees, please visit deakin.edu.au/honours.

SCHOLARSHIPS AND GRANTS

To ensure higher education is accessible for all members of the community, Deakin University offers scholarships for academic excellence, access and equity, accommodation, and Aboriginal and Torres Strait Islanders.

Scholarships in the Faculty of Science, Engineering and Built Environment for information technology students include:

- IGNITED (Initiative for a Girls' Network in Information Technology and Engineering @ Deakin): for first-year female students entering an undergraduate course within the School of Engineering or School of Information Technology valued at $5000 per year over the duration of the course, conditional upon full-time enrolment and satisfactory academic progress. Recipients will also be assigned an academic mentor.

- Dean's Scholars Program: aims to recognise, reward and nurture high-achieving students who have recently completed Year 12 and been admitted through VTAC.

For more information on scholarships, please visit deakin.edu.au/scholarships.

The Faculty of Business and Law offers the following scholarships to business students undertaking single and combined courses in business (sport management), commerce, information systems, management or sport development:

- Business Scholars Program: aims to recognise and nurture high-achieving students who have recently completed Year 12 and been admitted through VTAC.

- First in Family Grants: to assist commencing students from financially disadvantaged backgrounds.

- Rural and Regional Grants: to assist commencing rural students from Warrnambool and surrounding areas.

For more information, please visit deakin.edu.au/buslaw/student-scholarships.

GLOBAL SCIENCE AND TECHNOLOGY PROGRAM

In 2013, the Faculty of Science, Engineering and Built Environment introduced a new program designed to help Science, Engineering and Built Environment students realise their dreams of international study.

The Global Science and Technology Program aims to recognise, reward and support high achieving Science, Engineering and Built Environment students who would like to conduct part of their studies overseas to help them develop new skills and a broader world view.

Successful applicants will be offered a $3000 scholarship to assist with travel costs and will be required to participate in the Deakin Global Citizenship Program. For more information, please visit deakin.edu.au/sebe/global.

WHERE DO OUR GRADUATES GO?

JULIEANNE BIGNOUX

LEADER, TARGET IT TEAM

'The Work-Integrated Learning placements provide a fantastic opportunity for students to obtain real world experience in their chosen field of study. In addition, students are offered diverse exposure to working life in general. The transition from university into the workplace can be challenging so having the opportunity to diversify their experience is of considerable benefit.

Work-Integrated Learning placements offer students the opportunity to develop valuable organisational knowledge, communication skills and broad stakeholder management, which are all essential in any workplace. The placements offer employers the opportunity to introduce innovative people into their organisations and give them wide-ranging exposure. We have had selected students go on to secure permanent employment with us following completion of their placements.'

SURVEY FINDS IT COMPANIES THE BEST PLACES TO WORK

IT companies dominated the 2012 BRW Best Places to Work survey, with seven tech outfits featuring in the top ten spots. Conducted by BRW magazine in partnership with the Great Place to Work Institute, the survey asked employees the extent to which they trust their leaders, have pride in what they do, and enjoy the people they work with. The top five companies were all involved with software or web development, network infrastructure and data storage. For more information, please visit **brw.com.au/lists**.

A career in IT or IS has almost endless possibilities. Deakin's IT and IS courses reflect industry needs, offering areas of study that are of crucial importance to IT development and applications, and are tailored to produce the graduate skills that employers are looking for.

Our graduates are entering an industry in which their skills and knowledge are in high demand. Depending on which subject area you specialise in, you may work in a range of fields including computer science and software development, games design and development, information systems, IT security and business security management or mobile and apps development. You could work as a computer games designer, a security specialist, a software engineer, a business consultant, an information officer, a system or business analyst, a network engineer or 3D graphic designer.

Recent Deakin graduates have been employed by a range of companies, both within the IT and business industries and in the many other industries that depend on IT, including, but not limited to, the following:

- AARNet
- ANZ
- Barwon Health
- Barwon Water
- City of Greater Geelong
- Coles Myer
- Corporate Toll IT
- Firelight Technologies
- Godfrey Hirst
- IBM
- KPMG
- Metricon Homes
- Minor Planet Asia Pacific
- National Australia Bank (NAB)
- Oracle
- Rip Curl
- Sensis
- Seven Network
- Soul Australia
- Telstra.

DID YOU KNOW?

Career opportunities from an IT degree are constantly evolving and changing. For example, IT jobs on **www.seek.com.au** indicate the technical yet savvy role of social media officer is becoming common.

COURSES AND ATARS

	Melbourne Burwood Campus	Geelong campuses	Warrnambool Campus	Off campus	
	Clearly-in ATAR 2013	Clearly-in ATAR 2013	Clearly-in ATAR 2013	Available	Page
Bachelor of ...					
Information Technology	S326	51.15	50.65		Yes	8
For information on major sequences available, please refer to page 8.					
Information Technology (Honours)	S325	N/A	N/A			10
For information on major sequences available, please refer to page 8.					
Information Technology (Computer Science and Software Development)	S327	51.65			Yes	10
Information Technology (Games Design and Development)	S333	50.15	N/A		Yes	12
Information Technology (IT Security)	S334	51.25	N/A		Yes	13
Information Technology (Mobile and Apps Development)	S303	54.35			Yes	14
Information Technology (Professional Practice)	S329	N/A	N/A			15
For information on major sequences available, please refer to page 8.					
Information Systems	M340	N/A	N/A		Yes	16
Global Science and Technology Program	80.00*	80.00*			16
Science and Technology (Dean's Scholars Program in information technology)	90.00*	90.00*			16
Business and Law – Business Scholars Program	93.85	93.70	84.15		17

Geelong campuses = Geelong Waurn Ponds Campus and Geelong Waterfront Campus.

N/A = Not available or not applicable. The course is offered at this campus. Where no clearly-in ATAR is available it may mean that other admission requirements apply.

Please refer to the course entry for more information.

You will be required to participate in an on-campus residential at the Geelong Waurn Ponds Campus.

* Minimum ATAR.

If a clearly-in ATAR is not listed it means that the course is not available at that campus.

For more information on ATARs please visit deakin.edu.au/future-students/year12.

COURSES AND ATARS

	Melbourne Burwood Campus	Geelong campuses	Warrnambool Campus	Off campus	
	Clearly-in ATAR 2013	Clearly-in ATAR 2013	Clearly-in ATAR 2013	Available	Page
Combined courses					
Bachelor of ... / Bachelor of ...					
Commerce/Information Systems I D366	N/A	N/A		Yes	18
Engineering/Information Technology | D375		N/A		Yes#	19
Information Systems/Arts | D370	N/A	N/A		Yes	20
Information Systems/ Health Sciences | D368	N/A	N/A			21
Information Systems/ Information Technology | D371	72.45			Yes	22
Information Systems/Laws I D367	N/A	N/A		Yes	23
Information Systems/Science I D369	N/A				24
Bachelor of Information Systems/ Diploma of Language I D328	N/A	N/A		Yes	26
IT-related courses					
Bachelor of ...					
Commerce | M300	76.00	61.90	57.45	Yes	26
IT-related major sequences: accounting information systems, business information systems, eBusiness, interactive marketing, supply chain management. *Note: not all major sequences are available at all campuses.*					
Management | M302	64.05	51.95	N/A	Yes	27
IT-related major sequences: accounting information systems, business security management, health informatics, professional practice, supply chain management. *Note: not all major sequences are available at all campuses.*					

Geelong campuses = Geelong Waurn Ponds Campus and Geelong Waterfront Campus.

N/A = Not available or not applicable. The course is offered at this campus. Where no clearly-in ATAR is available it may mean that other admission requirements apply. Please refer to the course entry for more information.

You will be required to participate in an on-campus residential at the Geelong Waurn Ponds Campus.

* Minimum ATAR.

If a clearly-in ATAR is not listed it means that the course is not available at that campus.

For more information on ATARs please visit deakin.edu.au/future-students/year12.

MAJOR STUDY AREAS

Information technology [B] [G] [X]

The generic Bachelor of Information Technology course has the following major sequences available: computer science, game development, interactive media design, networking, mathematical modelling, security and software development.

Refer to the Bachelor of Information Technology course description on page 8 for details of these major sequences. Deakin's Bachelor of Information Technology (Professional Practice) enables you to experience full-time work in the IT industry as part of your degree.

The Bachelor of Information Technology (Honours) has been designed for high-achieving students with an interest in continuing onto a research degree in IT after completing their undergraduate studies. The major sequences that are available in the generic Bachelor of Information Technology are also available to students in these two courses.

Computer science and software development [B] [X]

These studies focus on the technological aspects of computing and IT, including the development of analytical skills and an understanding of programming and software engineering. Graduates will be able to implement complex software, databases and networks in real-world environments, while keeping up-to-date with the rapid changes in industry.

Games design and development [B] [G] [X]

This is an exciting and rapidly evolving area of information technology, due in part to the popularity of modern gaming systems such as the Wii™, Xbox 360™, PlayStation 3™ and mobile devices including the iPhone®. The design and development of computer games requires a balanced mix of creative skills along with technical programming skills. You will design, build and manage computer game projects through multidisciplinary teams, using industry standard approaches and development environments. Graduates of this course will have skills suitable for employment within the games industry, as well as the broader information technology and software development industry.

Mobile and apps development [B] [X]

New in 2013, the Bachelor of Information Technology (Mobile and Apps Development) has been designed to give you the knowledge needed to help you thrive in the fast-growing and exciting field of mobile apps design and development. With the increase in the use of broadband and mobile devices, industries of all types are developing new mobile apps to satisfy the needs of their customers. Developments in mobile devices are also shaping and changing the way businesses and their employees work. These developments and changes to consumer-to-consumer, business-to-consumer and business-to-business needs are driving a demand for people with the necessary skills to work in the mobile apps field. The Bachelor of Information Technology (Mobile and Apps Development) focuses on the theories, technologies and skills needed to design and develop apps on modern mobile platforms.

IT security [B] [G] [X]

Gain practical and theoretical knowledge in this critical aspect of IT with an emphasis on understanding and assessing the need for IT security in a working environment, knowledge of the security solutions available, as well as understanding the business, ethical and legal implications of risk management. You will learn in a leading-edge study environment and graduate as a qualified IT professional.

Information systems [B] [F] [X]

The study of information systems delivers an appreciation regarding the related managerial roles of business people, the application of technology and the strategic management of vast quantities of information, as well as the information systems supporting today's modern business organisation. These studies focus on developing and applying information technology solutions to business problems, preparing you for a wide variety of rewarding career options.

The Bachelor of Information Systems incorporates a Business Internship Program, providing final-year students with a realistic business experience.

WHAT IS THE DIFFERENCE BETWEEN INFORMATION TECHNOLOGY AND INFORMATION SYSTEMS?

Many students ask what the difference is between Information Technology (IT) and Information Systems (IS). To help you understand the difference and how these two areas are related, these terms are explained below.

IT is a practical, hands-on discipline that uses information technology tools, processes and methodologies to develop solutions and address or assist in solving problems across a wide range of areas. IT has an important role in all aspects of modern industry, including defence, banking, automotive, gaming, entertainment and fashion design.

Information systems is the business side of technology and it focuses on the way people and organisations use technology to enhance their businesses and lives. In fact, information systems professionals are in demand around the world and they represent the greatest wave of opportunity with the explosion of information and technology everywhere.

You will gain knowledge of the underlying information systems that support modern business processes, learn about the business applications of information systems, and gain the skills and knowledge to understand this dynamic area.

COURSES

BACHELOR OF INFORMATION TECHNOLOGY
3 B G X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
S326	B 51.15 G 50.65 X N/A	$7640 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online.

N/A Refer to page 6.

The Bachelor of Information Technology provides a thorough grounding in the basic skills of computing, such as networking, IT security, interactive media or software development. The course also provides the theoretical understanding and experience necessary to enable graduates to keep abreast of this rapidly changing field. Through the study of a core set of IT units common to all IT degrees at Deakin, and the selection of a variety of IT majors and elective studies (both IT course-grouped and units from other areas of study), you can tailor your studies to your own interests and specific career aspirations.

An honours year is available for high-achieving students upon completion of this degree.

Professional recognition
The Bachelor of Information Technology is professionally accredited with the Australian Computer Society (ACS).

Career opportunities
You may find employment in roles such as object-oriented and procedural programmer, database and web designer and manager, network manager, component integrator, project manager, consultant or system analyst.

Work-Integrated Learning
The Work-Integrated Learning Program gives you the opportunity to complete an internship or paid industry-based learning placement and gain credit towards your degree. Many students take up industry placements with leading information technology companies to gain experience in the workplace and generate contacts in the industry.

Course structure
You must complete 24 credit points of study, including 8 credit points of core IT units, at least one IT major sequence and 10 elective units (which may be used to complete a second major sequence).

Core units
Level 1
SIT010 Safety Induction Program (0-credit-point safety unit)
SIT101 Fundamentals of Information Technology
SIT103 Introduction to Database Design
SIT104 Introduction to Web Development
SIT105 Critical Thinking and Problem Solving

Level 2
SIT202 Computer Networks
SIT223 Information Technology Professional Skills

Level 3
SIT302 Project
SIT374 Project Management

Major sequences
- Computer science B G X
- Game development B G X
- Interactive media design B
- Mathematical modelling B G X
- Networking B G
- Security B G X
- Software development B G X

COMPUTER SCIENCE B G X
This major sequence focuses on the theory of computing and information technology. The theoretical concepts provide the necessary rigour for software design and problem solving, enhancing students who are interested in possessing strong analytical skills necessary in managerial and consultancy positions.

Level 1
SIT102 Introduction to Programming
SIT192 Discrete Mathematics

Level 2
SIT222 Operating Systems Concepts
SIT232 Object-Oriented Development

Level 3
Select two units from:
SIT322 Distributed Systems
SIT323 Practical Software Development
SIT340 Research and Development in Information Technology

GAME DEVELOPMENT B G X
The game development major sequence provides you with the necessary foundation of skills and knowledge to develop modern computer game software. You will learn how to structure and develop solutions to the complex problems faced by professional game developers, using industry standard programming languages, libraries and development environments to create a range of games and virtual environments.

Level 1
SIT151 Game Fundamentals
SIT153 Introduction to Game Programming
SIT190 Introductory Mathematical Methods**

Level 2
SIT204 Mathematics and Physics for Games
SIT255 Advanced Game Development

Level 3
SIT353 Multiplayer and Networked Games
SIT354 Real-Time Graphics and Rendering

** Students who have completed Mathematical Methods 3 and 4 or equivalent may choose to replace SIT190 with an elective unit.

Course duration in years `3`
Melbourne Burwood Campus `B`
Geelong Waterfront Campus `F`
Geelong Waurn Ponds Campus `G`
Warrnambool Campus `W`
Off campus `X`

INTERACTIVE MEDIA DESIGN `B`

Combining both technical IT and creative skills, this major sequence cuts across traditional disciplines, allowing you to develop a package of complementary skills that extend the core studies in IT into the design and development of interactive media. You will learn how to design and author multimedia information, create electronic documents, design and manipulate databases and information systems, and develop in-demand interactive media project management skills.

Level 1
SIT161 Principles of Interactive Media
SIT162 Interactive Media Systems

Level 2
SIT253 Audio and Visual Game Elements
SIT263 Interface Design

Level 3
SIT361 Multimedia Systems and Technology
SIT363 Authoring of Interactive Media

MATHEMATICAL MODELLING `B` `G` `X`

Studies in mathematics provides you with a strong critical knowledge base and develops powers of analysis, logical thinking and problem solving, as well as a high level of numerical ability. This major sequence offers traditional subjects (calculus, algebra and discrete mathematics) and modern topics (information security and cryptography, operations research). It provides a solid background in the discipline and teaches practical skills through applying mathematics in a variety of situations.

Level 1
SIT192 Discrete Mathematics
SIT194 Introduction to Mathematical Modelling

Level 2
SIT281 Cryptography
SIT292 Linear Algebra and Applications to Data Communications
SIT291 Mathematical Methods for Information Modelling

Level 3
SIT392 Public-Key Cryptography
SIT396 Complex Analysis
SIT399 Advanced Topics in Mathematics

NETWORKING `B` `G`

The networking major sequence focuses on the planning, design and management of modern day computer networks. Emphasis is on the provisioning of both local and wide area networks that carry converged data, voice and video traffic. The major sequence incorporates the Cisco Certified Networking Associate (CCNA) curriculum that trains you in the skills needed to construct and maintain network infrastructures to effectively support organisational needs.

Level 1
SIT182 Introduction to Computer Security

Level 2
SIT203 Web Programming
SIT272 Internet Core and Enterprise Routing

Level 3
SIT322 Distributed Systems
SIT377 Advanced Network Engineering
SIT382 System Security

Plus one unit from:
SIT322 Distributed Systems
SIT340 Research and Development in Information Technology

SECURITY `B` `G` `X`

This critical aspect of IT is the focus of this major sequence. Emphasis is placed on issues such as computer security, cryptography, system security and security management.

Level 1
SIT182 Introduction to Computer Security
SIT192 Discrete Mathematics

Level 2
SIT281 Cryptography
SIT284 IT Security Management

Level 3
SIT382 System Security
SIT384 Corporate Computer and Network Security

Recommended elective unit
SIT190 Introductory Mathematical Methods

SOFTWARE DEVELOPMENT `B` `G` `X`

This major sequence will equip you with the hands-on skills required to implement a piece of software on different types of computing platforms from mobile devices to high performance servers. Graduates will be able to implement complex software, databases and networks in real-world rapid changing environments.

Level 1
SIT102 Introduction to Programming

Level 2
SIT203 Web Programming
SIT221 Classes, Libraries and Algorithms
SIT232 Object-Oriented Development

Level 3
SIT321 Software Engineering
SIT323 Practical Software Development

COURSES

BACHELOR OF INFORMATION TECHNOLOGY (HONOURS) 4 B G

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
S325	B N/A G N/A	$8370 (CSP)[1]
YEAR 12 PREREQUISITES		NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English. Minimum ATAR of 80.00.		VTAC Personal History online.

The Bachelor of Information Technology (Honours) has been designed for high-achieving students with an interest in continuing on to a research degree in IT after completing their undergraduate studies. Successful completion of the Bachelor of Information Technology (Honours) will enable you to apply to undertake a PhD in the field. Only students with an ATAR of 80.00 and above will be considered, with admission through VTAC based on ATAR and successful completion of the published prerequisites. You will be required to maintain a 70 per cent average to progress to the honours year, otherwise you may exit with a Bachelor of Information Technology degree.

Professional recognition
Graduates of this course are eligible for full professional membership of the Australian Computer Society (ACS).

Career opportunities
The advanced coursework and research skills gained during the course are attributes highly valued by organisations seeking to employ graduates in consultancy, management, research and academia.

Depending on the chosen major sequence, you may find employment in such roles as IT consultant, business analyst, project manager, research assistant, scientist in a research organisation or an academic.

Work-Integrated Learning
Please refer to the Bachelor of Information Technology (S326) course entry on page 8.

Course structure
You must complete 32 credit points of study, including the requirements of the Bachelor of Information Technology (24 credit points, including at least one IT major sequence) plus an additional 8 credit points consisting of honours (research) units. You will be required to maintain a 70 per cent average to remain in the course – those who fail to meet this academic requirement will be transferred to the generic Bachelor of Information Technology degree.

Core units and major sequences
Refer to the Bachelor of Information Technology (S326) course entry on page 8 for details of major sequences and a list of core units in levels 1 to 3.

Honours (research) units
Level 4
SIT420 Honours – Information Technology (2 credit points)
SIT421 Honours – Information Technology (2 credit points)
SIT422 Honours – Information Technology (2 credit points)
SIT423 Honours – Information Technology (2 credit points)

N/A Refer to page 6.

BACHELOR OF INFORMATION TECHNOLOGY (COMPUTER SCIENCE AND SOFTWARE DEVELOPMENT) 3 B X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
S327	B 51.65 X N/A	$8360 (CSP)[1]
YEAR 12 PREREQUISITES		NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.		VTAC Personal History online.

Deakin's Bachelor of Information Technology (Computer Science and Software Development) provides an understanding of the technology on which systems are built, as well as how to develop software systems and applications and form an environment to acquire skills needed for software development.

The course supports students who wish to master software development and prepares you for both research and development by providing a background of software understanding, software design, programming languages, data structures and databases, operating systems, networks, distributed systems and software engineering.

It is structured so the intellectual material will remain current for a number of years despite the fact computer languages and technology change rapidly.

An honours year is available for high-achieving students upon completion of this degree.

Professional recognition
The Bachelor of Information Technology (Computer Science and Software Development) is professionally accredited with the Australian Computer Society (ACS).

Career opportunities
You may find employment as a software developer, software analyst, software engineer, database administrator, web designer, network and systems manager, component integrator, tester, system analyst, or IT consultant.

You will also be suited to employment in areas of systems programming, software development, data communications, management, maintenance of computer systems and development of information systems.

Work-Integrated Learning
Please refer to the Bachelor of Information Technology (S326) on page 8.

Course duration in years `3`
Melbourne Burwood Campus `B`
Geelong Waterfront Campus `F`
Geelong Waurn Ponds Campus `G`
Warrnambool Campus `W`
Off campus `X`

Course structure

You must complete 24 credit points of study, including 16 core units and eight elective units. You must also complete a 0-credit-point safety induction program unit.

Level 1
SIT010 Safety Induction Program (0-credit-point safety unit)
SIT101 Fundamentals of Information Technology
SIT102 Introduction to Programming
SIT103 Introduction to Database Design
SIT104 Introduction to Web Development
SIT105 Critical Thinking and Problem Solving
plus three elective units

Level 2
MIS201 Business Requirements Analysis
SIT202 Computer Networks
SIT221 Classes, Libraries and Algorithms
SIT222 Operating Systems Concepts
SIT223 Information Technology Professional Skills
SIT232 Object-Oriented Development
plus two elective units

Level 3
SIT302 Project
SIT321 Software Engineering
SIT374 Project Management

Plus two units from:
SIT322 Distributed Systems
SIT323 Practical Software Development
SIT340 Research and Development in Information Technology
plus three elective units

Recommended elective unit
SIT192 Discrete Mathematics

N/A Refer to page 6.

For more information and to click through to unit descriptions, please visit **deakin.edu.au/courses.**

BRIAN D'SOUZA

BACHELOR OF INFORMATION TECHNOLOGY
(COMPUTER SCIENCE AND SOFTWARE DEVELOPMENT)
MELBOURNE BURWOOD CAMPUS

'I chose this field because technology is everywhere. I wanted to know how to understand, manipulate and control it, and understand the machines of the future.

What I enjoy most about my course is the content – having the ability to program and control machines and write software that helps me and others be more efficient, all while knowing I'm acquiring industry-recognised skills at the same time.

I work as an electronics consultant for Costco Australia and I recently started up my own business in the field of engineering (computer science/structural). I also do public speaking in the fields of distributed systems (modern day), social media and devices. My clients have included Victoria Police, local schools and city councils and is ever growing.

In the future I would like to use my expertise in the field of technology to help those not so advantaged to harness its potential for the betterment of themselves and their communities'.

» Read more about Brian's experience at
deakin.is/brian-dsouza.

COURSES

BACHELOR OF INFORMATION TECHNOLOGY (GAMES DESIGN AND DEVELOPMENT)

[3] [B] [G] [X]

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
S333	[B] 50.15 [G] N/A [X] N/A	$8230 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online.

Deakin's Bachelor of Information Technology (Games Design and Development) provides you with the skills and knowledge to thrive in this dynamic and fast-growing field. The course focuses on enhancing your hands-on ability to build computer games through developing an understanding and appreciation of concepts in software technology relevant to games, including game simulation and modelling, game programming and software engineering, mobile and networked gaming, multiplayer interaction, game design and production, and design of visual and audio content.

You will be exposed to hands-on computer games design and development in a dynamic studio learning environment and have access to games studios where you can interact and develop team-based projects.

An honours year is available for high-achieving students upon completion of this degree.

Professional recognition
The Bachelor of Information Technology (Games Design and Development) is professionally accredited with the Australian Computer Society (ACS).

Career opportunities
You will be qualified to work in a wide range of IT jobs, including game designer, game developer or game programmer, project manager, component integrator, multimedia system designer and developer or consultant.

Work-Integrated Learning
Please refer to the Bachelor of Information Technology (S326) on page 8.

Course structure
You must complete 24 credit points of study, including 17 core units and seven elective units. You must also complete a 0-credit-point safety induction program unit.

Level 1
SIT010 Safety Induction Program (0-credit-point safety unit)
SIT101 Fundamentals of Information Technology
SIT103 Introduction to Database Design
SIT104 Introduction to Web Development
SIT105 Critical Thinking and Problem Solving
SIT151 Game Fundamentals
SIT153 Introduction to Game Programming
SIT190 Introductory Mathematical Methods**
plus one elective unit

Level 2
SIT202 Computer Networks
SIT204 Mathematics and Physics for Games
SIT223 Information Technology Professional Skills
SIT253 Audio and Visual Game Elements
SIT254 Game Design
SIT255 Advanced Game Development
plus two elective units

Level 3
SIT302 Project
SIT353 Multiplayer and Networked Games
SIT354 Real-Time Graphics and Rendering
SIT374 Project Management
plus four elective units

** Students who have completed Mathematical Methods 3 and 4 or equivalent may choose to replace SIT190 with an elective unit.

N/A Refer to page 6.

Deakin's information technology students have access to computing laboratories and specialised computing facilities.

Course duration in years	3
Melbourne Burwood Campus	B
Geelong Waterfront Campus	F
Geelong Waurn Ponds Campus	G
Warrnambool Campus	W
Off campus	X

BACHELOR OF INFORMATION TECHNOLOGY (IT SECURITY) 3 B G X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
S334	B 51.25 G N/A X N/A	$8360 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online.

Deakin's Bachelor of Information Technology (IT Security) will provide you with a sound knowledge and understanding of general issues, concepts and practices in IT security. You will learn in a leading-edge study environment and graduate as a qualified IT professional. You will gain practical and theoretical knowledge in this critical aspect of IT with an emphasis on understanding and assessing the need for IT security in a working environment, knowledge of the security solutions available and an understanding of the business, ethical and legal implications of risk management. There is also an emphasis on analysis, investigation, problem-solving, development and technical skills related to IT security. An honours year is available for high-achieving students upon completion of this degree.

Professional recognition
The Bachelor of Information Technology (IT Security) is professionally accredited with the Australian Computer Society (ACS).

Career opportunities
Career options include work as a security analyst, project manager, security system manager, cryptographer, consultant, security system developer or programmer, information security auditor, business continuity or IT security engineer.

Work-Integrated Learning
Please refer to the Bachelor of Information Technology (S326) on page 8.

Course structure
You must complete 24 credit points of study, including 16 core units and eight elective units. You must also complete a 0-credit-point safety induction program unit.

Level 1
SIT010 Safety Induction Program (0-credit-point safety unit)
SIT101 Fundamentals of Information Technology
SIT103 Introduction to Database Design
SIT104 Introduction to Web Development
SIT105 Critical Thinking and Problem Solving
SIT182 Introduction to Computer Security
SIT192 Discrete Mathematics
plus two elective units

Level 2
SIT202 Computer Networks
SIT223 Information Technology Professional Skills
SIT281 Cryptography
SIT282 Computer Crime and Digital Forensics
SIT284 IT Security Management
plus three elective units

Level 3
SIT302 Project
SIT374 Project Management
SIT382 System Security
SIT384 Corporate Computer and Network Security
SIT392 Public-Key Cryptography
plus three elective units

N/A Refer to page 6.

CLAUDIO PALMERI

BACHELOR OF INFORMATION TECHNOLOGY (IT SECURITY)
MELBOURNE BURWOOD CAMPUS

'I have always been interested in IT security because it is a combination of everything I have always wanted to learn. Understanding security is much more than being able to use a computer. Security is making sure that the right people have access to the right information at the right time.

During my course I had the opportunity to complete an internship at Accenture. During this time, I worked hard to establish myself as a valuable resource within the team and my efforts paid off. At the end of the internship I received an offer to apply for a graduate position within Accenture's security practice.

Since leaving Deakin, I have worked with Accenture on a number of large-scale security projects in various industries across Australia and I am currently a manager within Accenture's security practice. This involves helping my clients protect information, critical infrastructures, applications and key business processes against cyber threats. This is great because we help them enable new business initiatives and innovation by managing and understanding risks and balancing them against the rewards of growth.'

COURSES

BACHELOR OF INFORMATION TECHNOLOGY (MOBILE AND APPS DEVELOPMENT) 3 B X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
S303	B 54.35 X N/A	$8370 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online.

The Bachelor of Information Technology (Mobile and Apps Development) focuses on theories, technologies and skills required to design and develop apps on modern mobile platforms, giving you the knowledge to help you thrive in this fast-growing field. It is designed for students who are interested in the broad aspects of mobile apps design and development – from frontend mobile devices all the way to the backend systems that support mobile apps.

The course provides you with suitable foundation training in key IT skills, specialised skills in mobile apps design and development, as well as generic professional skills such as writing, communication and ethical skills. It covers key mobile apps technologies from two major platforms: Android and iOS (Apple's mobile operating system). In addition to technology-specific skills, you will also learn cross-platform development skills through the latest HTML5, backend cloud computing services (e.g. maps) and frontend JavaScript frameworks.

Career opportunities
As a graduate of this course, you may find career opportunities in roles such as iOS developer, iPhone application developer, Android developer, iOS web developer, mobile developer, mobile applications architect, mobile deployment officers and mobile applications programmer.

Work-Integrated Learning
Please refer to the Bachelor of Information Technology (S326) course entry on page 8.

Course structure
You must complete 24 credit points of study including 16 credit points of core units, 8 credit points of elective units and a 0-credit-point safety induction program unit.

Course structure
Level 1
SIT010 Safety Induction Program (0-credit-point safety unit)
SIT101 Fundamentals of Information Technology
SIT102 Introduction to Programming
SIT103 Introduction to Database Design
SIT104 Introduction to Web Development
SIT105 Critical Thinking and Problem Solving
SIT120 Introduction to Apps Design
plus two elective units

Level 2
SIT202 Computer Networks
SIT203 Web Programming
SIT206 iOS Programming
SIT207 Android Programming
SIT223 Information Technology Professional Skills
SIT263 Interface Design
plus three elective units

Level 3
SIT302 Project
SIT305 Advanced Apps Development
SIT313 Mobile Computing
SIT374 Project Management
plus three elective units

Recommended elective units
SIT151 Game Fundamentals
SIT153 Introduction to Game Programming
SIT162 Interactive Media Systems
SIT182 Introduction to Computer Security
SIT322 Distributed Systems
SIT323 Practical Software Development

Note: Recommended elective units may have their individual prerequisites that you must satisfy through either completing the units within the course and/or by undertaking additional elective units.

N/A Refer to page 6.

For more information and to click through to unit descriptions, please visit **deakin.edu.au/courses.**

Course duration in years `3`
Melbourne Burwood Campus `B`
Geelong Waterfront Campus `F`
Geelong Waurn Ponds Campus `G`
Warrnambool Campus `W`
Off campus `X`

BACHELOR OF INFORMATION TECHNOLOGY (PROFESSIONAL PRACTICE) `3` `B` `G`

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
S329	`B` N/A `G` N/A	$8260 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English. Minimum ATAR of 80.00.	VTAC Personal History online.

Deakin's Bachelor of Information Technology (Professional Practice) gives you the opportunity to experience full-time work in the IT industry as part of your degree – giving you real-life industry experience and an edge in the employment market. As part of your course you will spend between six months and a year in the Science, Engineering and Built Environment Industry-Based Learning Program. This will be credited as part of your degree.

Depending on the length of the placement you undertake, you can complete the course in three years, or for students taking the option to complete a longer industry placement, the course can be completed in four years.

An honours year is available for high-achieving students upon completion of this degree.

Professional recognition
The Bachelor of Information Technology (Professional Practice) is professionally accredited with the Australian Computer Society (ACS).

Career opportunities
Depending on your chosen major, you may gain employment in a wide range of IT related roles, such as software developer/programmer, business analyst, games designer, IT consultant, IT manager, security specialist, systems administrator, network manager, project manager or multimedia technology developer.

Work-Integrated Learning
The Bachelor of Information Technology (Professional Practice) includes a six to 12 month work placement as part of Deakin's Industry-Based Learning Program.

Course structure
The Bachelor of Information Technology (Professional Practice) offers the same academic units and course rules as the Bachelor of Information Technology (see page 8) however you must include a minimum of six months (2 credit points) and a maximum of 12 months (3 credit points) of work placement as part of your degree. You will be required to maintain a 70 per cent average to remain in the course – those who fail to meet this academic requirement will be transferred to the generic Bachelor of Information Technology degree.

Core units and major sequences
Refer to the Bachelor of Information Technology (S326) course entry on page 8 for core units and major sequences available.

N/A Refer to page 6.

DR ELICIA LANHAM
LECTURER
SCHOOL OF INFORMATION TECHNOLOGY
MELBOURNE BURWOOD CAMPUS

'I love teaching information technology and, specifically, interactive media as the technology is constantly in a state of change. There is never a dull moment in this industry as there is always something new being researched, tested and developed.

At Deakin I am lucky to teach in many state-of-the-art facilities, enabling me to use an interactive approach to teaching and learning. I strongly believe that you learn from doing and participating, therefore this is the belief that I take to all my teaching. I design interactive learning activities wherever possible to support this approach. I also encourage my students to participate in internships and work placements as it enables them to develop industry networks and partnerships which they can call on after graduation.

In the School of Information Technology we have an advisory board, which is comprised of academics, industry representatives and students. This board works together to ensure that our courses maintain a close link to the current industry requirements.'

COURSES

GLOBAL SCIENCE AND TECHNOLOGY PROGRAM

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
Refer to specific course entry.	**B** 80.00* **G** 80.00*	Refer to specific course entry.

YEAR 12 PREREQUISITES	EXTRA REQUIREMENTS
Applicants must refer to the prerequisites for their specific information technology preference. Minimum ATAR of 80.00.	All applicants must complete and submit the Global Science and Technology Program Supplementary Information Form (deakin.edu.au/sebe/global).

The Global Science and Technology Program aims to recognise, reward and nurture high-achieving students who want to conduct part of their studies overseas through an exchange or study abroad program. A minimum ATAR of 80.00 is required for entry into this program. Successful applicants will be offered a scholarship of $3000 to assist with travel costs and will participate in the Deakin Global Citizenship Program. Scholarships will be awarded across the faculty to students undertaking any course offered by the Faculty of Science, Engineering and Built Environment, admitted to the program through VTAC.

Course structure
You are able to select any one of the undergraduate degrees offered by the Faculty of Science, Engineering and Built Environment through this single, campus-based VTAC preference. Refer to specific course entries and campus offerings in this booklet from the list of information technology courses.

* Minimum ATAR.

SCIENCE AND TECHNOLOGY (DEAN'S SCHOLARS PROGRAM)

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
Refer to specific course entry.	**B** 90.00* **G** 90.00*	Refer to specific course entry.

YEAR 12 PREREQUISITES
Applicants must refer to the prerequisites for their specific information technology course preference. Minimum ATAR of 90.00.

The Dean's Scholars Program aims to recognise, reward and nurture high-achieving students. A minimum ATAR of 90.00 is required for entry into this program. Scholarships will be awarded annually across the faculty to Year 12 students admitted to the program through VTAC. Successful applicants will also be offered a professional development program and have a high chance of being selected for the Science, Engineering and Built Environment Work-Integrated Learning (WIL) and Industry-Based Learning Program.

Course structure
You are able to select any one of the undergraduate degrees offered by the Faculty of Science, Engineering and Built Environment through this single, campus-based VTAC preference. Refer to specific course entries and campus offerings in this booklet from the list of information technology courses.

* Minimum ATAR.

BACHELOR OF INFORMATION SYSTEMS
3 B F X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
M340	**B** N/A **F** N/A **X** N/A	$8920 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online, academic results and GPA or interview.

Information Systems (IS) is the application and use of technology, not the creation of it. On a daily basis, we all use some form of IS or IT for business processes and management, creative output or communication. IS graduates are in demand, and with high graduate salaries on offer, an IS degree can lead to a satisfying and rewarding career. IS roles are people focused and skills are transferable across the globe.

An honours year is available for high-achieving students upon completion of this degree.

Career opportunities
Information systems professionals have access to employment in just about every Australian industry, including all levels of government. This course is designed to give you essential business skills, as well as expertise in information systems, enabling you to achieve specialist information systems career roles such as project manager, business analyst, security analyst, database developer, web designer and information systems project leader.

Work-Integrated Learning
Work-Integrated Learning is a core component of this degree.

As a Deakin student, you will learn in a friendly and supportive environment.

Course duration in years **3**
Melbourne Burwood Campus **B**
Geelong Waterfront Campus **F**
Geelong Waurn Ponds Campus **G**
Warrnambool Campus **W**
Off campus **X**

Course structure

You must complete 24 credit points of study, including 16 credit points of core information systems units and 8 credit points of unspecified elective units to enable you to include a 6 or 8-credit-point major sequence.

Core units

Level 1
MCA010 Communication for Academic Studies (0 credit points)
MIS101 Business Information Systems
MIS171 Business Analytics

Level 2
MIS201 Business Requirements Analysis
MIS202 Managing Data and Information
MIS211 IS Services, Infrastructure and the Cloud
MIS231 Professional Ethics in the Digital Age
MIS271 Business Intelligence
MIS276 Design Thinking
MIS291 Community Based Volunteering A

Level 3
MIS312 eBusiness Strategies
MIS332 People, Work and Technology
MIS352 Enterprise Systems
MIS398 Project Management
MIS399 Capstone Project

Plus 2 credit points of Work-Integrated Learning chosen from:
MIS390/MIS391 Business Internship A or B
MIS394/MIS395/MIS396/MIS397 Industry Based Learning in Business A, B, C or D

Plus 8 credit points of general elective units.

N/A Refer to page 6.

BUSINESS SCHOLARS PROGRAM

3 **B** **F** **W**

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
Refer to specific course entry.	**B** 93.85 **F** 93.70 **W** 84.15	Refer to specific course entry.
YEAR 12 PREREQUISITES		
Refer to specific course entry.		

The Business Scholars Program is a scholarship for high achieving students undertaking a business degree in the Faculty of Business and Law. The scholarship provides financial assistance, academic mentoring, opportunities for acceleration and preparation for honours work.

Please refer to specific course entries from the list of Deakin University business (sport management), commerce, information systems, management, property and real estate and sport development courses. Refer also to the campus of offer for each course within specific course entries. Applications to the Business Scholars Program are made through VTAC, listing the Business Scholars Program as a separate preference. The Business Scholars Program is available for current Year 12 students only.

For more information, please visit **deakin.edu.au/buslaw/student-scholarships**.

COURSES

COMBINED COURSES

BACHELOR OF COMMERCE/BACHELOR OF INFORMATION SYSTEMS [4] B F X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
D366	B N/A F N/A X N/A	$9080 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online, academic results and GPA or interview.

The Bachelor of Commerce/Bachelor of Information Systems allows you to combine studies in information systems with studies in commerce such as accounting, finance, economics, marketing and management leading to a broad range of technology enabled business roles. Graduates with combined courses in commerce and technology are highly sought after by employers.

Professional recognition
Deakin's Bachelor of Commerce is internationally recognised and EPAS accredited by the European Foundation for Management Development (EFMD).

The Bachelor of Commerce can lead to accreditation with many professional bodies, such as the Certified Practicing Accountant (CPA) Program of CPA Australia, entry into the CA program of the Institute of Chartered Accountants in Australia (ICAA), the Association of Chartered Certified Accountants (ACCA), the Institute of Public Accountants Professional Accounting Program, the Australian Computer Society (ACS), the Economics Society of Australia and the Australian Marketing Institute, providing you meet the specified requirements within the course.

Career opportunities
A combined course such as the Bachelor of Commerce/Bachelor of Information Systems offers you the chance to broaden your career opportunities after graduation.

The Bachelor of Commerce can open doors to careers in virtually every area of business and government internationally, including professional accountant, IT and systems professional, economist, financial planner, business consultant, network manager, internet administrator, human resources manager, manager, social and economic policy developer, international trade officer or marketing assistant/manager.

For information on career outcomes for the Bachelor of Information Systems, refer to page 16.

Work-Integrated Learning
The Faculty of Business and Law offers Work-Integrated Learning, which covers business internships, community-based volunteering, industry-based learning and international study opportunities. For more Information, please visit deakin.edu.au/buslaw/wil.

Course structure
You must complete 32 credit points of study – 16 credit points from the Bachelor of Information Systems and 16 credit points from the Bachelor of Commerce, including at least one major sequence.

Bachelor of Information Systems units
Refer to the Bachelor of Information Systems course entry on page 16 for a list of core units.

Bachelor of Commerce units
Core units
Level 1
MAA103 Accounting for Decision Making
MAE101 Economic Principles
MAE102 The Global Economy
MAF101 Fundamentals of Finance
MCA010 Communication for Academic Studies (0 credit points)
MIS101 Business Information Systems
MIS171 Business Analytics
MLC101 Business Law
MMM132 Management

Level 2
MMH299 Business Communication
MMK277 Marketing Management

Bachelor of Commerce major sequences
- Accounting B F X
- Accounting information systems B F X
- Business information systems B F^ X
- Commercial law B F X
- eBusiness B F X
- Economics B F X
- Finance B F X
- Financial planning B F X
- Human resource management B F X
- Interactive marketing B F^ X
- International business B
- International management B F^ X
- International trade and economic policy B F X
- Management B F X
- Marketing B F X
- Quantitative business analysis B F^ X
- Supply chain management B F X

^   You will be required to undertake one or more units in online or off-campus mode.

For more information on these major sequences, please refer to the *2014 Undergraduate Business Career Booklet.*

N/A Refer to page 6.

For more information and to click through to unit descriptions, please visit **deakin.edu.au/courses**.

Course duration in years ☐3
Melbourne Burwood Campus ☐B
Geelong Waterfront Campus ☐F
Geelong Waurn Ponds Campus ☐G
Warrnambool Campus ☐W
Off campus ☐X

BACHELOR OF ENGINEERING/ BACHELOR OF INFORMATION TECHNOLOGY

5.5 G X #

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
D375	G N/A	$8370 (CSP)[1]
	X N/A	

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English and a study score of at least 20 in mathematical methods (CAS) or specialist mathematics.	VTAC Personal History online and demonstrated mathematical background equivalent to Year 12 level.

This combined course enables you to specialise in a niche field by gaining two professional and highly-complementary degrees. You may combine one of the engineering majors – civil, electrical and electronics, mechanical or mechatronics and robotics engineering – with a major sequence in information technology, for example, computer science, game development, mathematical modelling, networking, security or software development.

Professional recognition
Deakin's Bachelor of Engineering is accredited by Engineers Australia, which gives the degree international recognition, allowing graduates to practise as professional engineers in many countries around the world.

The Bachelor of Information Technology is professionally accredited with the Australian Computer Society (ACS).

Career opportunities
The Bachelor of Engineering/Bachelor of Information Technology offers you the chance to broaden your career opportunities after graduation. The opportunities available will depend on the major sequences you take within your course.

For information on career outcomes for the Bachelor of Information Technology, please see page 8.

Deakin's Bachelor of Engineering is designed to maximise your employment prospects, making you an industry-ready engineer who is immediately employable and capable of adapting to an ever-changing future.

Depending on your chosen specialisation, career opportunities can be found in civil, electrical and electronics, mechanical, or mechatronics and robotics engineering.

For more information on career outcomes for the Bachelor of Engineering, please refer to the *2014 Undergraduate Engineering Career Booklet*.

Work-Integrated Learning
For the Bachelor of Engineering component of the course, you must obtain an aggregate of at least 12 weeks of suitable practical experience during your program. Practical experience is normally undertaken during the vacation periods.

Please also refer to the Bachelor of Information Technology (S326) course entry on page 8.

Course structure
You must complete 44 credit points of study, which must include specified engineering and information technology core units and a major sequence from each degree.

Bachelor of Information Technology units and major sequences
Refer to the Bachelor of Information Technology course entry on page 8 for details of major sequences and a list of units available.

Bachelor of Engineering major sequences
- Civil G X
- Electrical and electronics G X
- Mechanical G X
- Mechatronics and robotics G X

For more information on these major sequences, please refer to the *2014 Undergraduate Engineering Career Booklet*.

\# You will be required to participate in an on-campus residential at the Geelong Waurn Ponds Campus.

N/A Refer to page 6.

All our campuses offer places to socialise, grab a coffee and take time out.

COURSES

BACHELOR OF INFORMATION SYSTEMS/ BACHELOR OF ARTS [4] B G/F^ X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
D370	B N/A G/F N/A X N/A	$7120 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online, academic results and GPA or interview.

The Bachelor of Information Systems/Bachelor of Arts is a flexible degree that allows you to combine generalist studies in arts with studies in information systems. The Bachelor of Arts allows you to pursue a complementary area of study such as media and communication, international studies, politics and policy, visual communication, journalism, public relations, languages or sociology.

Career opportunities
A combined course such as the Bachelor of Information Systems/Bachelor of Arts offers you the chance to broaden your career opportunities after graduation.

An arts degree provides skills for a wide range of careers. Graduates may find careers in international relations, journalism, advertising, media, photography, multimedia, publishing, public relations, marketing, personnel and industrial relations, government, policy development, research, business, finance, community services, ethnic affairs, social work, education, policing, and performing and visual arts.

For information on career outcomes for the Bachelor of Information Systems, refer to page 16.

Work-Integrated Learning
The Faculty of Business and Law offers Work-Integrated Learning, which covers business internships, community-based volunteering, industry-based learning and international study opportunities. For more information, please visit deakin.edu.au/buslaw/wil.

N/A Refer to page 6.

^ Students enrolled at the Geelong Waterfront Campus will be required to undertake some units at the Geelong Waurn Ponds Campus.

Course structure
You must complete 32 credit points of study, including 16 credit points from the Bachelor of Information Systems and 16 credit points from the Bachelor of Arts.

Bachelor of Information Systems units
Refer to the Bachelor of Information Systems course entry on page 16 for a list of core units.

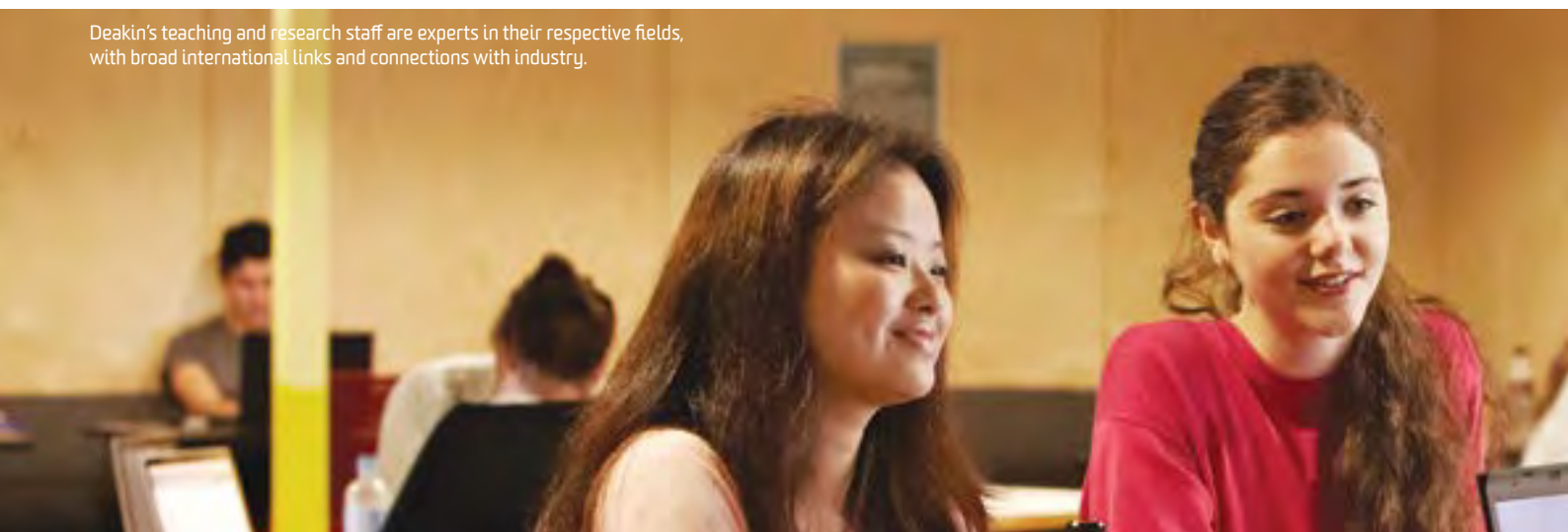### Bachelor of Arts major sequences
- Animation B
- Anthropology G X
- Arabic B G X
- Australian studies B G X
- Children's literature B G X
- Chinese B G
- Criminology G X
- Dance B**
- Drama B
- Film studies B
- History B G X
- Indonesian B G X
- International relations B G X
- Journalism B G X
- Language and culture studies B G X*
- Literary studies B G X
- Media and communication B G X
- Middle East studies B G X
- Philosophy B G X
- Photography B
- Politics and policy studies B G X
- Professional and creative writing B G
- Public relations G X
- Sociology B G X
- Visual arts B F

* A full major sequence in Chinese is not available at this campus.

** Dance major sequence offered to Bachelor of Teaching (Secondary)/Bachelor of Arts (D347) and Bachelor of Creative Arts students only.

For more information on these major sequences, please refer to the 2014 *Undergraduate Arts, Humanities and Social Sciences Career Booklet*.

Deakin's teaching and research staff are experts in their respective fields, with broad international links and connections with industry.

Course duration in years	3
Melbourne Burwood Campus	B
Geelong Waterfront Campus	F
Geelong Waurn Ponds Campus	G
Warrnambool Campus	W
Off campus	X

BACHELOR OF INFORMATION SYSTEMS/ BACHELOR OF HEALTH SCIENCES 4 B G / F ^

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
D368	B N/A G / F N/A	$8370 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.	VTAC Personal History online, academic results and GPA or interview.

The Bachelor of Information Systems/Bachelor of Health Sciences is a flexible degree that provides a range of exciting opportunities and equips graduates with the skills needed to work in a variety of settings. It is an excellent option for those looking to discover their passion in the health and information systems areas and also provides a pathway to further professional studies at postgraduate level.

Career opportunities

As a graduate of this combined course you will have the specialised knowledge and skills required to build a career as an information systems professional in an industry sector of your choosing. You will also have the ability to pursue a diverse range of career opportunities within the health sector.

Depending on the study areas you choose, you may qualify to work in areas such as health promotion, health education, community health, project management, program planning, case management, counselling, family and community support, housing services, regional health service planning, sports psychology, sports nutrition and sports development.

For information on career outcomes for the Bachelor of Information Systems, refer to page 16.

Work-Integrated Learning

The Faculty of Business and Law offers Work-Integrated Learning, which covers business internships, community-based volunteering, industry-based learning and international study opportunities. For more information, please visit deakin.edu.au/buslaw/wil.

As part of the Bachelor of Health Sciences component of this course, you can enhance your employment prospects and consolidate your knowledge and skills through an industry placement unit. Depending on the major sequences you choose to study, this option may be available in the final year of your course.

Course structure

You must complete 32 credit points of study, including 16 credit points from the Bachelor of Information Systems and 16 credit points from the Bachelor of Health Sciences.

The 16 credit points studied within the Bachelor of Information Systems must include the 16 credit points of core units.

Within the 16 credit points from the Bachelor of Health Sciences, you must complete two core units offered by the Faculty of Health, that provide you with the opportunity to engage in multidisciplinary learning, and two major sequences.

Bachelor of Information Systems units

Refer to the Bachelor of Information Systems course entry on page 16 for a list of core units.

Bachelor of Health Sciences units

Core units

HBS107 Understanding Health
HBS108 Health Information and Data

Bachelor of Health Sciences major sequences

- Environmental health B
- Exercise science B G X
- Family, society and health B X
- Food studies B
- Health and sustainability B
- Health promotion B G X
- Medical biotechnology G
- Nutrition B G
- People, society and disability B X
- Physical activity and health B G
- Psychology B G X
- Sport coaching B

For more information on these major sequences, please refer to the *2014 Undergraduate Health Career Booklet*.

N/A Refer to page 6.

^ Students enrolled at the Geelong Waterfront Campus will be required to undertake some units at the Geelong Waurn Ponds Campus.

COURSES

CHRISTIANE PEREZ

BACHELOR OF BUSINESS INFORMATION SYSTEMS/
BACHELOR OF INFORMATION TECHNOLOGY°
MELBOURNE BURWOOD CAMPUS

'I chose my course because I like technology and computers and learning how things work. Combining information technology with information systems also appealed. I wanted to make myself more attractive to the job market, so the combined course was perfect.

I really liked a subject called Business Intelligence in which we used tools to analyse data and find solutions. These skills can be used to inform companies to make better business decisions.

In the final trimester of my course, I completed an internship with banking and insurance company Suncorp. I worked full time over three months and the benefits were immeasurable. During the first four weeks I worked as a project manager, managing a team of employees and organising their workload. I also filled a business analyst role involving the analysis of reports and assisting a software engineer by creating a business plan, then deciding if the job was possible and advising on what was needed to complete it.

On completion of my course, I secured a graduate program position within Suncorp as a business analyst.'

° Now Bachelor of Information Systems/Bachelor of Information Technology.

BACHELOR OF INFORMATION SYSTEMS/ BACHELOR OF INFORMATION TECHNOLOGY

4 | B | X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
D371	B 72.45 X N/A	$8370 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English and a study score of at least 20 in mathematics (any).*	VTAC Personal History online, academic results and GPA or interview.

This course offers studies in IT and information systems, producing graduates with practical and theoretical knowledge in ICT leading to a spectrum of highly sought after graduate roles. This course will provide you with a thorough grounding in software development, web design, database, networking and project management. Graduates work in roles such as business analyst, computer systems designer, systems programmer, information security officer, games designer, games programmer, security specialist, network manager, project manager and multimedia technology developer.

Professional recognition
The Bachelor of Information Technology is professionally accredited with the Australian Computer Society (ACS).

Career opportunities
In today's IT job market multiskilling, multi-tasking and cross-skilling are highly valued and graduates of this course are well placed for a successful career in management of IT in business, industry or government. As a graduate you will be qualified for a wide range of positions including IT manager, project manager, analyst/programmer, network manager, internet developer and administrator, information systems project leader, IT consultant, systems manager or business consultant.

Work-Integrated Learning
Work Integrated Learning is a core component of the Bachelor of Information Systems. Please also refer to the Bachelor of Information Technology (S326) on page 8.

Course structure
You must complete 32 credit points of study, including 14 credit points of information systems core units# and 2 credit points of general elective units, six information technology core units#, four information technology course-grouped elective units, and one information technology major sequence.

Bachelor of Information Systems units
Refer to the Bachelor of Information Systems course entry on page 16 for a list of core units.

Bachelor of Information Technology units and major sequences
Refer to the Bachelor of Information Technology course entry on page 8 for details of major sequences and a list of units available.

* Mathematics may be removed as a Year 12 prerequisite for this course (subject to approval). Please check deakin.edu.au for up-to-date information.

\# Students undertaking D371 are not required to undertake SIT101, MIS231, SIT374 and MIS399. Students will undertake 2 credits points of elective units from the Bachelor of Information Systems and 2 credit points of elective units from the Bachelor of Information Technology instead.

N/A Refer to page 6.

Course duration in years `3`
Melbourne Burwood Campus `B`
Geelong Waterfront Campus `F`
Geelong Waurn Ponds Campus `G`
Warrnambool Campus `W`
Off campus `X`

BACHELOR OF INFORMATION SYSTEMS/ BACHELOR OF LAWS `5` `B` `F` `X`

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
D367	`B` N/A `F` N/A `X` N/A	$9080 (CSP)[1]

YEAR 12 PREREQUISITES

VCE units 3 and 4 – a study score of at least 35 in English (ESL) or 30 in any other English.

NON-YEAR 12 REQUIREMENTS

ALSET.^

You are exempt from sitting the ALSET if you:

» are a current Year 12 student; or
» have completed Year 12 studies in 2010, 2011 or 2012 and have not undertaken any tertiary studies (including TAFE studies, diploma or above) in the interim; or
» sat the ALSET in 2010, 2011 or 2012 and intend to use the result from that year; or
» are currently enrolled or were enrolled in a Bachelor of Laws, Bachelor of Laws/ combined course or the Juris Doctor (no other law course is eligible under this exemption clause) in 2011, 2012 or 2013 and have completed the equivalent of one full-time year at an Australian university (including at least two law (LLB) units); or
» have successfully completed an Australian postgraduate qualification in law in the past 10 years (three out of four units must be law (LLB) units).

^ ALSET criteria is currently under review. For the most up-to-date information, please visit the VTAC website www.vtac.edu.au.

N/A Refer to page 6.

Combining information systems with law will prepare you for the practice of law in the 'Information Age' where information is easily captured and used by organisations and individuals, and technological innovation is challenging the boundaries of privacy and security. The course prepares graduates for new cutting-edge careers in legal practice brought about by one of the greatest periods of innovation driven by technology.

Professional recognition

Deakin's law studies satisfy the academic requirements for admission to practise law in Victoria.

Career opportunities

A combined course such as the Bachelor of Information Systems/Bachelor of Laws offers you the chance to broaden your career opportunities after graduation.

Obtaining a law degree is normally the first step towards becoming a barrister or solicitor and most students entering law school aspire to enter one of these branches of the legal profession.

As an alternative to practising as a barrister or solicitor, you may choose to enter:

- business as a corporate lawyer, company administrator or business manager
- government service as a lawyer with departments or authorities as diverse as the Attorney-General's Department, the Office of Parliamentary Counsel, the Office of the Director of Public Prosecutions, and the Australian Securities and Investments Commission
- industrial relations
- public administration
- teaching at a university
- law reform as law reform commissioner or research officer.

For information on career outcomes for the Bachelor of Information Systems, refer to page 16.

Work-Integrated Learning

The Faculty of Business and Law offers Work-Integrated Learning, which covers business internships, community-based volunteering, industry-based learning and international study opportunities. For more information, please visit **deakin.edu.au/buslaw/wil**.

To satisfy the law component of this course, and be eligible to graduate, you are required to complete the prescribed professional experience.

Professional experience

The practical experience requirements will provide you with an opportunity to enrich your legal education and theoretical knowledge and assist in preparing you for employment in the industry. Your degree is enhanced by the requirement to complete 30 days work placement in a legal environment to gain experience on how the law operates in practice and to develop professional networks.

Practical legal training

In your final year, you will undertake a unique capstone unit, 'Legal Problem-Solving and Persuasion', which will teach you about the science of persuasion and approaching problems in a clear-minded manner in order to achieve optimum outcomes. In the process you will develop presentation skills and experience presenting in the court room.

Regular, compulsory practical experience placements throughout the course also offer you the opportunity to experience legal environments first-hand and develop useful workplace contacts.

Law Clinic

As part of this course, Deakin also offers Law Clinic, a clinical skills unit which involves you working at a community legal centre under the supervision of a legal practitioner. This unit not only gives you credit towards your degree but also enhances your overall learning experience, providing you with a unique insight into the community legal centre environment.

Course structure

You must complete 40 credit points of study – 24 credit points from the Bachelor of Laws and 16 credit points from the Bachelor of Information Systems.

Within the 24 credit points required in the Bachelor of Laws, 21 credit points are compulsory and 3 credit points are taken as elective law units. In addition, you will be required to complete the prescribed professional experience requirement.

Bachelor of Information Systems units

Refer to the Bachelor of Information Systems (M340) course entry on page 16 for details of the 16 credit points of core units.

For more information and to click through to unit descriptions, please visit **deakin.edu.au/courses**.

COURSES

Bachelor of Laws units
Core units
Level 1
MCA010 Communication for Academic Studies (0 credit points)
MLL110 Legal Principles and Skills
MLL111 Contract

Level 2
MLL213 Torts
MLL214 Criminal Law
MLL215 Commercial Law
MLL217 Misleading Conduct and Economic Torts
MLL218 Criminal Procedure
MLL221 Corporate Law

Level 3
MLL323 Constitutional Law
MLL324 Administrative Law
MLL325 Land Law
MLL327 Property
MLL334 Evidence
MLL335 Legal Practice and Ethics
MLL342 Workplace Law
MLL391 Civil Procedure and Alternative Dispute Resolution

Level 4
MLL405 Equity and Trusts
MLL406 Taxation
MLL409 Competition Law and Policy
MLL410 Intellectual Property
MLL411 Legal Problem Solving and Persuasion

Elective units
Select 3 credit points of elective law units from the following:

Level 3
MLL301 International Litigation and Dispute Settlement – Jessup Moot
MLL302 Human Rights Law
MLL315 Personal Injuries Compensation Schemes
MLL316 Mining and Energy Law
MLL317 Superannuation Law
MLL318 Insolvency
MLL336 International Commercial Law
MLL344 Chinese Commercial Law
MLL351 Law Clinic
MLL355 International Litigation and Dispute Settlement
MLL370 Law and the Internet
MLL377 International Law
MLL382 Indian Law
MLL388 International Financial Crime

Level 4
MLL408 Family Law

Law electives are offered on a rotational basis. Not every unit is offered every year.

BACHELOR OF INFORMATION SYSTEMS/ BACHELOR OF SCIENCE ④ B

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
D369	B N/A	$8370 (CSP)[1]
YEAR 12 PREREQUISITES		**NON-YEAR 12 REQUIREMENTS**
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.		VTAC Personal History online, academic results and GPA or interview.

This combined course allows you to combine studies in information systems with studies in a science stream such as biology, biological chemistry, environmental science or mathematical modelling. You will gain a broad knowledge of contemporary science and information systems, giving you the potential to work in a wide range of fields, including agriculture, medicine and human health, pharmaceuticals and food technology.

Career opportunities
A combined course such as the Bachelor of Information Systems/Bachelor of Science offers you the chance to broaden your career opportunities after graduation.

Bachelor of Science graduates may find career opportunities in government institutions in roles such as quality assurance, occupational health and safety, research, planning, management or marketing; science related industries working in pharmaceutical production or pharmaceutical sales; biomedical science areas such as research or hospital and laboratory science; quality assurance in analytical and diagnostic laboratories; the food industry in quality control; environment and natural resources; teaching; information technology; mathematics; or science journalism.

For information on career outcomes for the Bachelor of Information Systems, refer to page 16.

Work-Integrated Learning
As part of the Bachelor of Science component of this course, you are required to complete Professional Practice. This will allow you to gain valuable work experience, giving you the opportunity to apply and consolidate knowledge gained in your course, experience workplace culture and workplace practices, explore career options and develop a professional network. You may also have the opportunity to undertake industry-based learning, which can be credited towards your degree.

The Faculty of Business and Law offers Work-Integrated Learning, which covers business internships, community-based volunteering, industry-based learning and international study opportunities. For more information, please visit **deakin.edu.au/buslaw/wil**.

Course duration in years `3`
Melbourne Burwood Campus `B`
Geelong Waterfront Campus `F`
Geelong Waurn Ponds Campus `G`
Warrnambool Campus `W`
Off campus `X`

Course structure

You must complete 32 credit points of study – 16 credit points from the Bachelor of Information Systems and 16 credit points from the Bachelor of Science, including a major sequence. The 16 credit points studied within the Bachelor of Information Systems must include the 16 credit points of core units. The 16 credit points for the Bachelor of Science must include at least one 8-credit-point major sequence selected from the list below.

- Biological chemistry `B`
- Biology `B`
- Environmental science `B`
- Mathematical modelling `B` `X`

Refer to the *2014 Undergraduate Science Career Booklet* for details of these major sequences.

Core science units
Level 1
EES101 Communicating Science
SLE010 Laboratory and Fieldwork Safety Induction Program
(0-credit-point safety unit)
SLE103 Ecology and the Environment
SLE111 Cells and Genes

Chemistry units
Select one unit from:
SLE133 Chemistry in Our World*
SLE155 Chemistry for Professional Sciences*

* Students who have not completed Year 12 Chemistry or equivalent may choose to undertake SLE133 Chemistry in Our World. Students who have completed Year 12 Chemistry or equivalent may choose to undertake SLE155 Chemistry for Professional Sciences.

Physics units
Select one unit from:
SEP101 Engineering Physics
SEP122 Physics for the Life Sciences

Quantitative skills
Levels 1 and 2
Select one unit from:
HPS201 Research Methods in Psychology A
SIT191 Introduction to Statistics
SIT194 Introduction to Mathematical Modelling
SLE251 Research Methods and Data Analysis

Professional Practice
Level 3
Select one unit from:
SLE314 Research Project
SLE335 Industrial Applications of Science
SLE352 Community Science Project
SLE390 Professional Practice in Bioscience
STP321 Industry-Based Learning – Science

Bachelor of Information Systems units
Refer to the Bachelor of Information Systems (M340) course entry on page 16 for details of the 16 credit points of core units.

For more information and to click through to unit descriptions, please visit deakin.edu.au/courses.

CASSANDRA CASSIDY

BACHELOR OF INFORMATION TECHNOLOGY
(COMPUTER SCIENCE AND SOFTWARE DEVELOPMENT)
MELBOURNE BURWOOD CAMPUS

'I chose to study at Deakin because I could sense from the Open Days that the atmosphere was relaxed and friendly. Since then it has lived up to my first expectations.

What I enjoy most about uni and my course is the people I've been able to meet and the content I've learned. It's given me a much better understanding of the industry.

After graduating I plan to work in the industry for as long as possible, hopefully as a programmer. Otherwise I would love to be a teacher and pass on my knowledge to others.

My advice for anyone considering university is definitely go for it. It's a great experience and you get to make friends, which hopefully will be lifelong, and the lecturers and prac teachers are always willing to help.'

COURSES

BACHELOR OF INFORMATION SYSTEMS/ DIPLOMA OF LANGUAGE 3.5 B G / F ^ X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
D328	B N/A G / F N/A X N/A	$7420 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online, academic results and GPA or interview.

The Bachelor of Information Systems/Diploma of Language enables you to structure your own language focused course by combining subjects from arts while undertaking studies in information systems.

Career opportunities
A combined course such as the Bachelor of Information Systems/Diploma of Language offers you the chance to broaden your career opportunities after graduation. By obtaining a language qualification you will improve your employment opportunities both locally and overseas. Study Arabic and you may be able to work in the Arab Gulf States, the Middle East or North Africa. Study Chinese (Mandarin) to improve your opportunities to work in China, Taiwan and Hong Kong, or study Indonesian and you may work in Malaysia or Indonesia.

For information on career outcomes for the Bachelor of Information Systems, refer to page 16.

Work-Integrated Learning
The Faculty of Business and Law offers Work-Integrated Learning, which covers business internships, community-based volunteering, industry-based learning and international study opportunities. For more information, please visit deakin.edu.au/buslaw/wil.

Course structure
You must complete 28 credit points of study, including 16 credit points from the Bachelor of Information Systems, 8 credit points from one of the language streams in the Diploma of Language and 4 credit points of general elective units that can be taken from any faculty. You must fulfil the requirements of each of the two degrees in your course of study.

Bachelor of Information Systems units
Refer to the Bachelor of Information Systems (M340) course entry on page 16 for details of the 16 credit points of core units.

Diploma of Language streams
- Arabic B G X
- Chinese B G
- Indonesian B G X

Refer to the *2014 Undergraduate Arts, Humanities and Social Sciences Career Booklet* for details of the language streams.

^ Students enrolled at the Geelong Waterfront Campus will be required to undertake some units at the Geelong Waurn Ponds Campus.

N/A Refer to page 6.

For the latest information about new courses at Deakin University, please visit **deakin.edu.au**.

IT-RELATED COURSES

BACHELOR OF COMMERCE 3 B F W X

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
M300	B 76.00 F 61.90 W 57.45 X N/A	$9360 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online, academic results and GPA.

Deakin's Bachelor of Commerce is a popular choice, with its solid foundation in business studies and flexibility to choose from more than 20 major sequences. As a Bachelor of Commerce student you will study a common first year of units and then choose major sequences as you progress through your degree. This flexible structure enables you to tailor your degree for maximum employment opportunities.

Valuable Work-Intergrated Learning opportunities are also available, giving you professional work experience in your area of specialisation and enhancing employment prospects.

An honours year is available upon completion of this degree.

Professional recognition
Deakin's Bachelor of Commerce is internationally recognised and EPAS accredited by the European Foundation for Management Development (EFMD).

The Bachelor of Commerce is the recommended pathway to qualify for membership of professional organisations. The course can lead to accreditation with many professional bodies such as the Certified Practicing Accountant (CPA) Program of CPA Australia, entry into the CA program of the Institute of Chartered Accountants in Australia (ICAA), the Association of Chartered Certified Accountants (ACCA), the Institute of Public Accountants Professional Accounting Program, the Australian Computer Society (ACS), the Economics Society of Australia and the Australian Marketing Institute, providing you meet the specified requirements within the course.

Career opportunities
This degree can open doors to careers in virtually every area of business and government internationally, including professional accountant, IT and systems professional, economist, financial planner, business consultant, network manager, internet administrator, human resources manager, manager, social and economic policy developer, international trade officer or marketing assistant/manager.

Work-Integrated Learning
The Faculty of Business and Law offers Work-Integrated Learning, which covers business internships, community-based volunteering, industry-based learning and international study opportunities. For more information, please visit deakin.edu.au/buslaw/wil.

Course structure
You must complete 24 credit points of study including 11 core units and at least one commerce major sequence. Depending on how you structure your course, you may complete up to three major sequences.

The following major sequences are related to information technology: accounting information systems, eBusiness, interactive marketing and supply chain management.

For more information on these major sequences, please refer to the *2014 Undergraduate Business Career Booklet*.

N/A Refer to page 6.

Course duration in years `3`
Melbourne Burwood Campus `B`
Geelong Waterfront Campus `F`
Geelong Waurn Ponds Campus `G`
Warrnambool Campus `W`
Off campus `X`

BACHELOR OF MANAGEMENT* `3` `B` `F` `W` `X`

DEAKIN CODE	ATAR	INDICATIVE FIRST YEAR FEE
M302	`B` 64.05 `F` 51.95 `W` N/A `X` N/A	$9220 (CSP)[1]

YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.	VTAC Personal History online, academic results and GPA.

The Bachelor of Management is designed to provide contemporary management knowledge and skills to students who aim to work in a management role. You will learn essential skills such as critical thinking, interpreting data, communication, leadership and teamwork. This is a business degree for students who see a future in leading and managing staff within an organisation.

An honours year is available upon the completion of this degree, which can provide you with a competitive edge in the job market or a pathway into a higher degree.

Career opportunities
This degree offers career opportunities in a wide variety of business arenas both domestically and internationally, including business analyst, customer relations manager, market researcher, training and development officer, event manager, business security consultant or internet administrator.

Work-Integrated Learning
The Faculty of Business and Law offers Work-Integrated Learning, which covers business internships, community-based volunteering, industry-based learning and international study opportunities. For more information, please visit **deakin.edu.au/buslaw/wil**.

Course structure
You must complete 24 credit points of study of which at least 16 must be Business and Law course-grouped units, including a core business management stream made up of 8 credit points. To complete the 16 Business and Law course-grouped units, you may choose to complete an 8-credit-point general studies stream from a specified list or a major sequence.

The following major sequences are related to information technology: accounting information systems, business security management, health informatics, professional practice and supply chain management.

For more information on these major sequences, please refer to the *2014 Undergraduate Business Career Booklet*.

* Subject to review for 2014.

N/A Refer to page 6.

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1 The indicative first year fee is an approximate indication of the cost of this course in the first year of full-time study for a Commonwealth Supported Place. We can't specify the exact figure because fees are charged per unit, not per course, so the actual fees may vary depending on what units you choose to study.
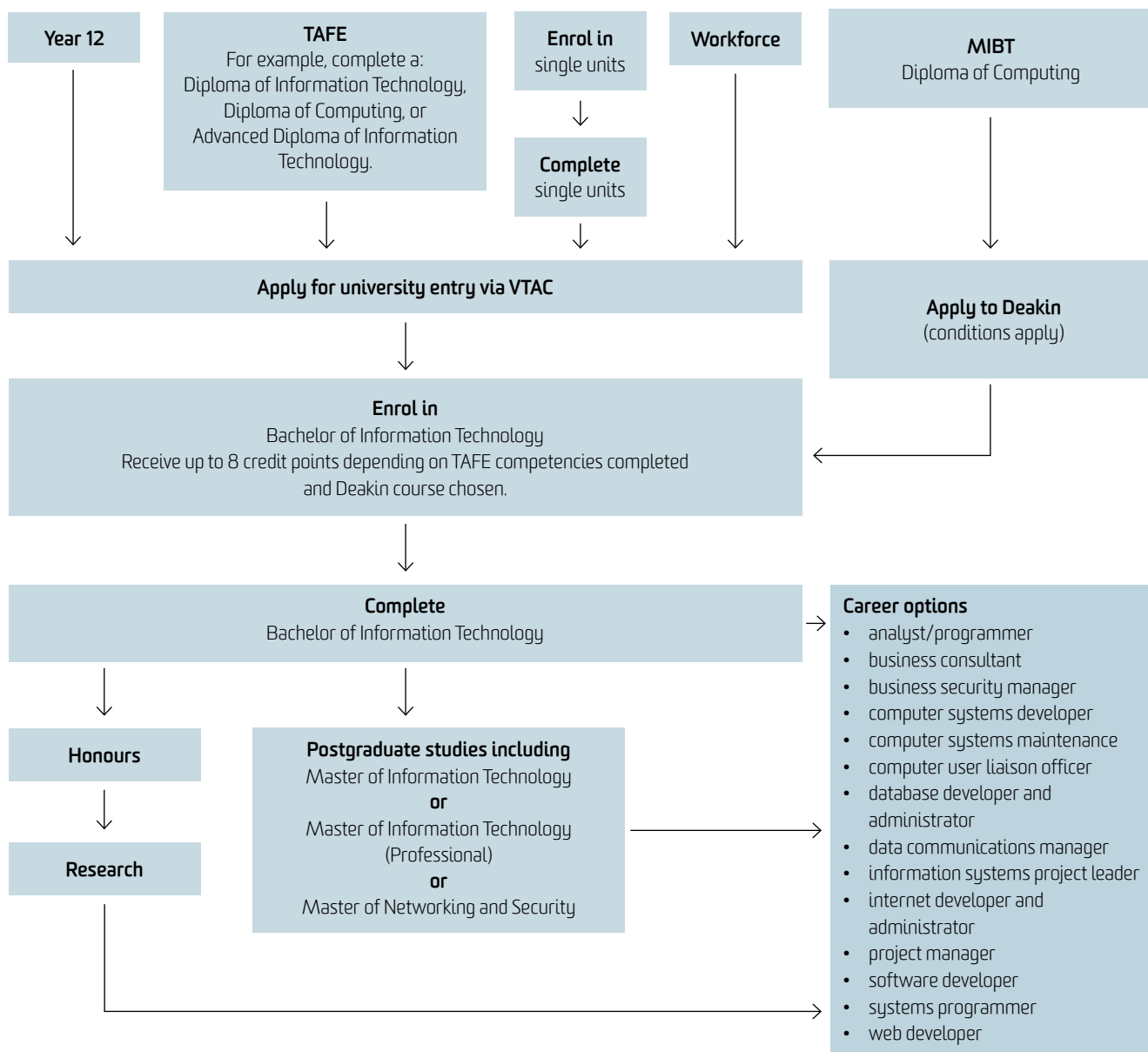
The fees quoted in this booklet are for Australian students in 2013 and may change for 2014 and later years. You can find more information about fees on our website at deakin.edu.au or at studyassist.gov.au. For information on fees for international students, please visit deakin.edu.au/international.

Melbourne Burwood Campus

PATHWAYS

Pathway programs provide alternative entry options that take into consideration previous qualifications or your time in the workforce. Deakin has pathway options for a range of applicants including current Year 12 students, International Baccalaureate (IB) students and non-school leavers. Examples for information technology students include:

Year 12	TAFE For example, complete a: Diploma of Information Technology, Diploma of Computing, or Advanced Diploma of Information Technology.	Enrol in single units	Workforce	MIBT Diploma of Computing

Complete single units

Apply for university entry via VTAC

Apply to Deakin (conditions apply)

Enrol in
Bachelor of Information Technology
Receive up to 8 credit points depending on TAFE competencies completed
and Deakin course chosen.

Complete
Bachelor of Information Technology

Career options
- analyst/programmer
- business consultant
- business security manager
- computer systems developer
- computer systems maintenance
- computer user liaison officer
- database developer and administrator
- data communications manager
- information systems project leader
- internet developer and administrator
- project manager
- software developer
- systems programmer
- web developer

Honours

Research

Postgraduate studies including
Master of Information Technology
or
Master of Information Technology (Professional)
or
Master of Networking and Security

Please note applicants are subject to entry requirements.
For more examples of pathways into Deakin University, please visit **deakin.edu.au/pathways**.

TAFE pathways

If you complete a diploma or advanced diploma at TAFE in a field similar to the Deakin course of your choice, you can then apply for the Deakin course and you may receive credit for your TAFE qualification. In most cases, this will reduce the number of units you need to complete to obtain your Deakin qualification. Plus, upon graduation, you'll have not one, but two qualifications.

Deakin has formal pathway programs and special credit arrangements with its four partner TAFEs (Box Hill Institute and Chisholm in Melbourne, South West TAFE in Warrnambool and The Gordon in Geelong) however all TAFE qualifications are considered for application to Deakin.

The assessment of credit is based on a number of factors and is determined on an individual basis. To find out what credit you are entitled to, please visit **deakin.edu.au/courses/credit**.

Deakin's Associate Degree of Arts, Business and Sciences

The Associate Degree of Arts, Business and Sciences (Deakin at Your Doorstep), is a two-year, full-time (or part-time equivalent), 16-credit-point program specifically designed for students who would benefit from a supported entry to tertiary study.

The associate degree course structure provides flexible pathways into tertiary education and can be used as a guaranteed pathway into a range of Deakin degrees at the Warrnambool Campus, Geelong Waterfront Campus, Geelong Waurn Ponds Campus or off campus. The degree may also be taken as a stand-alone, two-year exit qualification.

Students studying the associate degree at one of our partner TAFE campuses – Advance in Bairnsdale, Chisholm in Dandenong and Rosebud, Kangan Institute at Hume Global Learning Centre in Craigieburn, Sunraysia in Swan Hill, GOTAFE in Wangaratta and South West TAFE in Portland – will study the course concurrently with a diploma qualification.

For more application information, please visit **deakin.edu.au/doorstep**.

Melbourne Institute of Business and Technology (MIBT)

Deakin University and the Melbourne Institute of Business and Technology (MIBT) have been in partnership for more than 15 years. MIBT can provide an excellent pathway to Deakin for students who do not meet the admission requirements for Deakin University courses. MIBT is located at Deakin's Melbourne Burwood Campus, Geelong Waterfront Campus and Geelong Waurn Ponds Campus, allowing you the opportunity to gain access to Deakin's facilities and services and get involved in uni life.

MIBT may provide a direct pathway to second-year study at Deakin in information technology, business and management (conditions apply). MIBT diplomas are equivalent to the first year of a Deakin University undergraduate degree. On successful completion of a diploma and meeting University academic entrance criteria, students may be eligible for entry to second year of the relevant Deakin University undergraduate degree.

Choice of campus

One of the great things about Deakin is that we have four campuses throughout Victoria. Many of our courses are offered at more than one campus and the ATAR required for each campus often differs, but the same high-quality degree is delivered no matter which campus you study at. This provides you with more entry options and enables you to transfer your studies from one campus to another.

Single unit (non-award) study

You may wish to undertake a single unit of study at Deakin (without being enrolled or accepted into a course). These units are subject to fees and do not lead to a degree, but may be credited towards a degree if you succeed in gaining entry to a course at a later stage.

For more information, please visit **deakin.edu.au/study-at-deakin/apply/other-types-of-application/apply-for-a-single-subject**.

For more information on pathways into Deakin University, please visit **deakin.edu.au/pathways**.

HOW TO APPLY

Applying to study at Deakin University is easy. Whether you are a current Year 12 student, TAFE graduate, mature-age student, non-school leaver, or international student studying VCE in Australia, you can apply to study a Deakin undergraduate course through the Victorian Tertiary Admissions Centre (VTAC) (unless stated otherwise in the VTAC CourseSearch www.vtac.edu.au or under the individual course entries in this booklet).

When you are applying for a course, make sure you check all the entry requirements carefully. Most courses have prerequisites and some have additional requirements that you will need to complete to be eligible for selection into that course. For prerequisite and extra requirement information, please visit the VTAC website www.vtac.edu.au.

For more information on how to apply, including special consideration and deferment, visit deakin.edu.au/study-at-deakin/apply.

DID YOU KNOW?

If your application to study at Deakin is successful but it's not the right time for you to commence university, you can defer your studies in most Deakin courses for up to two years. This means you can postpone your studies to work, travel or volunteer and still retain your university place. For more information, please visit deakin.edu.au/study-at-deakin/apply/enrol-defer-withdraw-or-transfer.

Deakin's computer laboratories are open 24 hours, providing access to email and the internet.

A HEADSTART TO CISCO INDUSTRY CERTIFICATION

The CCNA Exploration and CCNP curricula of the Cisco® Networking Academy® are incorporated into units offered by the School of Information Technology and can be studied by students completing any Deakin bachelor's degree. They are offered in on-campus mode at the Melbourne Burwood Campus or Geelong Waurn Ponds Campus. To help students achieve success, these units are supported by dedicated, well-equipped laboratories with modern facilities and high equipment to student ratios. Students completing these units are well prepared to complete the internationally recognised CCNA and CCNP industry certifications and undertake careers such as a network administrator, network installer, network technician or a network engineer.

A HANDS-ON APPROACH TO IT SECURITY

IT security students at Deakin have the opportunity to put the theory they are learning into practice during hands-on work activities in Deakin's computer labs. The recently updated IT security lab at the Melbourne Burwood Campus is well-equipped with modern facilities and enthusiastic and experienced staff. One of the additions to the lab is a facility to examine mobile devices – a capability that will support studies in this area in the future.

GET AN EDGE ON GAMING

A range of cutting-edge facilities support units in games design and development. Practical work takes place in modern laboratories equipped with high end PCs fitted with specialist graphics cards. A range of gaming platforms including the PS3™, Wii™ and Xbox 360™ provide opportunities to work with modern computer games. The quality of the hardware is matched by the range of software available, including professional software development platforms, industry standard modelling and animation packages, Steam, and motion capture software compatible with the systems used in Deakin's state-of-the-art motion capture facility. Several specialist peripherals are used for specific units: the AR Drone quadcopter, graphics tablets and 3D monitors, and Rover robot platforms.

FIND OUT MORE

Talk to us

For more information, phone 1300 DEGREE (1300 334 733) to speak with a course adviser. You can also contact us via email at enquire@deakin.edu.au.

Website

Deakin on the web, deakin.edu.au, contains detailed information on everything at Deakin, including:

- courses
- fees
- campuses
- facilities and services
- applications and scholarships
- events and activities for VCE, TAFE and non-school leavers
- student profiles.

To search for courses and click through to unit descriptions visit deakin.edu.au/courses or deakin.edu.au/handbook.

School of Information Technology website: deakin.edu.au/it.

School of Information Systems website: deakin.edu.au/infosys.

Other useful websites

Future students
deakin.edu.au/study-at-deakin

Subject information
deakin.edu.au/handbook

Campuses
deakin.edu.au/campuses
deakin.edu.au/tour

Clubs and societies
dusa.org.au/pages/clubs

Scholarships
deakin.edu.au/scholarships

Services and facilities
deakin.edu.au/campus-life/
services-and-facilities

VTAC
www.vtac.edu.au

Study Assist
studyassist.gov.au

Social media@Deakin

Connect with Deakin University on Facebook, Twitter and YouTube. Talk with other future students and ask current students and staff about life and study at Deakin.

facebook.com/DeakinUniversity
twitter.com/DiscoverDeakin
youtube.com/DeakinUniversity

Visit us

There are many opportunities throughout the year to visit Deakin, experience a campus tour and talk with representatives face-to-face.

To organise a campus tour and presentation for an individual or group, please phone:

Geelong	03 5227 8525
Melbourne	03 9246 8063
Warrnambool	03 5563 3444

or email future-students@deakin.edu.au.

For our 2013 Open Day dates, see the back cover of this booklet.

For more information on event dates visit deakin.edu.au or phone 1300 DEGREE (1300 334 733).

Victorian Tertiary Admissions Centre (VTAC)

Contact VTAC for information about:

- the application process
- VCE prerequisites
- extra requirements
- middle-band selection
- clearly-in ATARs
- fees
- Special Entry Access Schemes (SEAS).

www.vtac.edu.au

Further reading

Deakin University produces a range of booklets to help you choose the right course. These include:

- *2014 Undergraduate Course Guide*
- *Accommodation Guide 2014*
- *Introduction to University Guide*
- *Pathways to Deakin 2014*
- *Parents' magazine*
- *Off-Campus Course Guide 2014*
- *University handbook 2013*
  deakin.edu.au/study-at-deakin/find-a-course/university-handbook (online only)
- *Deakin at Your Doorstep* (Associate Degree of Arts, Business and Sciences)
- 2014 undergraduate career booklets
- postgraduate course information.

You can download copies of these brochures at deakin.edu.au/course-guides or to request copies of any of the above, email enquire@deakin.edu.au or phone 1300 DEGREE (1300 334 733).

Deakin University also produces course guides specifically for international students. To request a copy phone Deakin International on +61 3 9627 4877 or email deakin-international@deakin.edu.au.

IMPORTANT DATES 2013

DEAKIN EVENTS

Sunday 4 August
Open Day
Warrnambool Campus

Sunday 11 August
Open Day
Geelong Waurn Ponds Campus and
Geelong Waterfront Campus

Sunday 25 August
Open Day
Melbourne Burwood Campus

Deakin will hold additional events for prospective students and parents. Please visit **deakin.edu.au/study-at-deakin** for updates.

APPLICATION DATES

Trimester 1

Early August*
VTAC applications open

Late September*
Timely VTAC applications close

Mid November*
Late VTAC applications close (late fee applies)

Mid December*
Very late VTAC applications close (very late fee applies)

December
Change of Preference

Please check the Deakin University Change of Preference website closer to the date for specific event details, **deakin.edu.au/cop**.

* Please check the VTAC website www.vtac.edu.au closer to the time for specific dates.

Trimester 2 and 3

Trimester 2 applications open in April and Trimester 3 applications open in August. Course availability and places may be limited. Please visit **deakin.edu.au/apply** closer to the time for more information and specific dates.

CAREER EXPOS

Melbourne

Thursday 2–Sunday 5 May
The Age VCE Careers Expo

Saturday 1–Sunday 2 June
Melbourne – Reinvent Your Career Expo

Friday 16–Sunday 18 August
Herald Sun Careers Expo

Interstate

Saturday 23–Sunday 24 March
Brisbane – Reinvent Your Career Expo

Sunday 12–Monday 13 May
Adelaide – Tertiary Studies and Careers Expo

Thursday 16–Sunday 19 May
Perth – Careers, Education and Employment Expo

Saturday 20–Sunday 21 July
Brisbane – The Tertiary Studies Expo (TSXPO)

Saturday 21–Sunday 22 September
Sydney – Reinvent Your Career Expo

VTAC OFFERS

Late November*
Early round offers

Mid to late January 2014*
Round 1 offers

Mid to late January 2014*
Negotiated offers (irregular offers)

Early February 2014*
Round 2 offers

* Please check the VTAC website www.vtac.edu.au closer to the time for specific dates.

2013
DEAKIN UNIVERSITY
OPEN DAYS

04.08.13

WARRNAMBOOL
CAMPUS

Princes Highway
Warrnambool Victoria

11.08.13

GEELONG
WAURN PONDS CAMPUS

75 Pigdons Road
Waurn Ponds Victoria

GEELONG
WATERFRONT CAMPUS

1 Gheringhap Street
Geelong Victoria

25.08.13

MELBOURNE
BURWOOD CAMPUS

221 Burwood Highway
Burwood Victoria

deakin.edu.au