2017 UNDERGRADUATE INFORMATION TECHNOLOGY





INFORMATION TECHNOLOGY AT DEAKIN

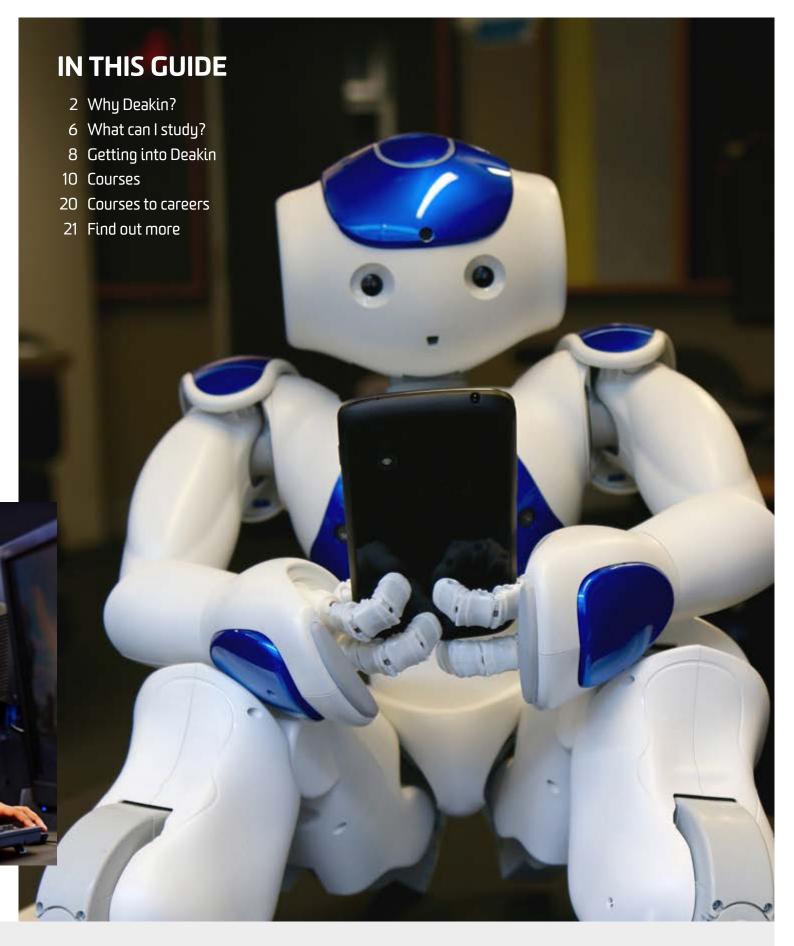
Information technology offers an exciting future in an industry that's thriving. From finance, telecommunications and health to retail, government and beyond, IT is an essential part of a broad range of industries.

This creates diverse career opportunities, including software engineering, cloud computing, data analytics, systems and business analysis, iOS and Android development, games design, network engineering, multimedia system design, 3D graphic design, database and web design and cyber security. As an IT graduate, you can choose from a huge range of roles and sectors, pursuing the one that inspires you most.

Excited about a career in IT?
Keep reading to start your journey at Deakin.







DEAKIN HALLMARKS

Deakin Hallmarks are awards that recognise students' outstanding achievement of Graduate Learning Outcomes, which are highly valued in the workplace.



Communication



Digital literacy



Teamwork



Critical thinking



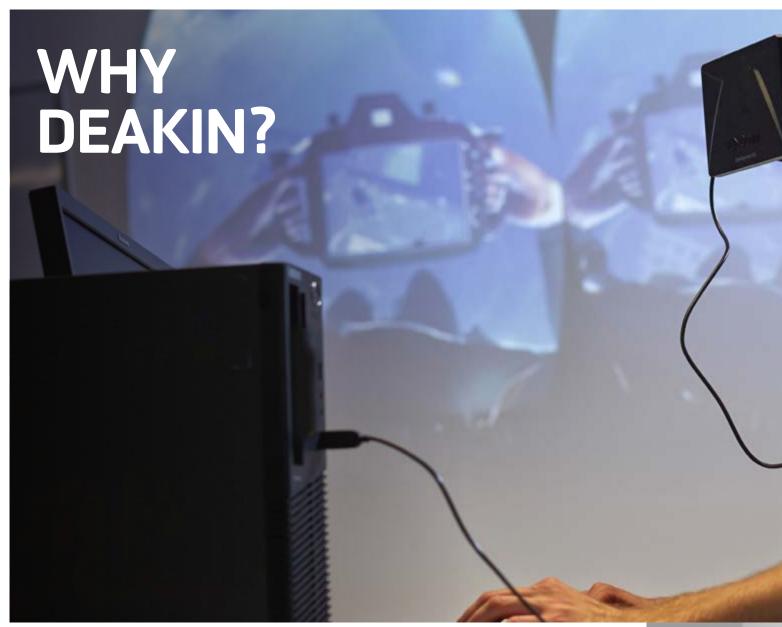
Problem solving



Selfmanagement



Global citizenship



In today's society, information technology is at the very centre of the way we work, learn, communicate, socialise and entertain ourselves.

COMPUTER SCIENCE EXCELLENCE

Computer science at Deakin is ranked in the top one per cent of universities worldwide, reflecting teaching excellence in a critical Australian industry.

deakin.edu.au/information-technology/research

Source: 2015 Academic Ranking of World Universities

Practical experience

As a Deakin information technology (IT) or information systems (IS) student, you 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 learn by doing, rather than just seeing.

Professional recognition

Professional accreditation by the Australian Computer Society (ACS) means your degree is recognised in industry, resulting in stronger job outcomes. You can also choose to study units at Deakin that lead to Cisco certification, giving you a relevant, practical qualification, as well as an advantage over other graduates when applying for jobs.





WHY DEAKIN?

Modern facilities with the latest technology

Deakin regularly invests in its facilities and IT programs, ensuring that from day one of your course you have access to the latest software in fully equipped computer labs. For example, if studying games design and development you have access to modern IT studios equipped with gaming consoles and high-end PCs fitted with specialist graphics cards. Specialised software is also available to students, such as professional software development platforms and industry standard modelling and animation packages.

Shaping your IT journey

How you study IT at Deakin depends on your interests and career aspirations. Undertaking an IT or computer science degree at Deakin enables you to gain a core set of skills, as well as specialist skills by selecting from diverse study areas – this means you can tailor your course to suit your interests and explore your strengths. Alternatively, you can choose a specialist IT degree, such as the Bachelor of Cyber Security or Bachelor of Games Design and Development, if you have a focused interest in a specific area and already know your chosen career path.

You can also choose to enhance your IT or IS studies by undertaking a combined course or choosing elective units from other disciplines, such as criminology, arts, commerce, information systems, law and teaching, expanding your career pathways even further.

Experience the world while you study

Study Abroad

Our Study Abroad and Exchange Office offers various programs, including exchange, study abroad, short-term study programs, study tours and international volunteering opportunities, with Deakin IT students having studied in a wide range of countries. Recently, students had the opportunity to go on a two-week group study tour of Indonesia to discover the cultural, technological and business side of the gaming industry, while also gaining knowledge and hands-on experience. For more information, visit deakin.edu.au/studyoverseas.

Global Science and Technology Program

The Global Science and Technology Program is designed to add an international experience to your IT degree, supporting you to develop new skills and a broader world view while studying overseas. You can work in an international organisation and explore real world issues from a different perspective. For more information, visit deakin.edu.au/sebe/global.

Well-rounded graduates

IT skills are applicable in more than just the information and communications technology (ICT) sector and can open up employment opportunities in just about any industry. You will also develop important skills in critical thinking, analysis, investigation and evidenced-based decision-making.





GETTING TO GEELONG

Travel to the Geelong campuses is easy, whether by train, bus, car or bike. If you're based in Melbourne, the commute to Geelong with the new regional rail link is incredibly fast, with travel from Southern Cross Station to Geelong Waterfront less than an hour and to Waurn Ponds just over an hour. If you live in Melbourne's west, you may find your commute is as short as 30 minutes by car.

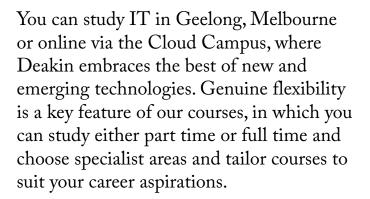
We also offer accommodation at each of our campuses, providing an affordable and secure living and learning community, ideal for personal growth and academic success.

Find out more about our locations at deakin.edu.au/life-at-deakin/our-locations and our accommodation by visiting deakin.edu.au/life-at-deakin/accommodation.

Hear what students have to say about studying information technology at Deakin by visiting **deakin.yt/it-students**. Interested in the staff perspective? Visit **deakin.yt/it-staff**.

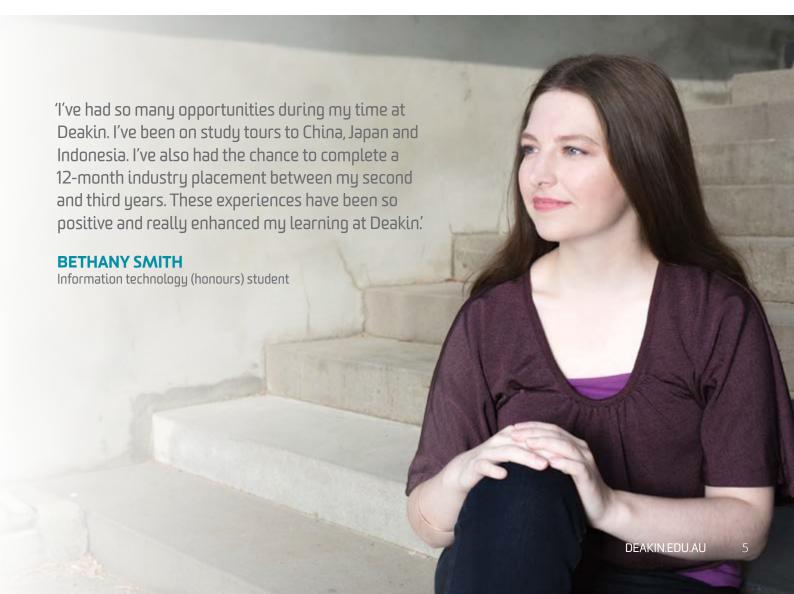


Cloud learning offers a convenient, personalised and engaging learning experience, using the latest digital tools.



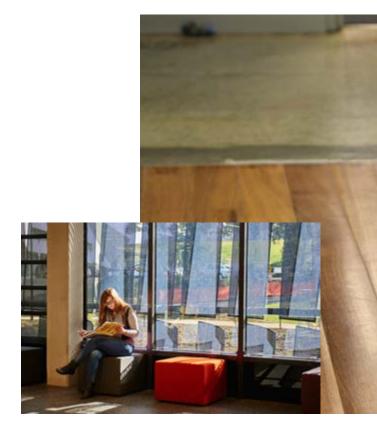


The 2015 BRW survey featured a number of IT companies in its survey on best places to work, with four leading tech outfits in the top 10. The survey was conducted by BRW in association with the Great Places to Work Institute and asked employees the extent to which they trust their leaders, have pride in what they do and enjoy the people they work with. www.brw.com.au



WHAT CAN I STUDY?

The IT sector is thriving, and with IT being an essential component to innovation, communication, productivity and security across a wide range of industries, a career in IT has never looked better



Information technology

Studying information technology provides you with the knowledge and skills necessary to keep abreast of this rapidly changing field. In addition to gaining a core set of IT skills that are relevant in almost every industry, you have the opportunity to choose from a diverse range of IT specialisations, from technical (cloud computing and programming) to the creative (interactive media design, mobile and apps development and game development), depending on your interests and career aspirations.

See ..

Bachelor of Information Technology, page 11 **Combined courses**, pages 16–19.

Computer science

Computer science equips you with the skills to design and develop advanced software and systems, along with the capacity to create and integrate new computing technologies that enhance effective business operations in today's digital age. With a focus on the technological aspects of IT, including analytics, cognitive computing, programming, software engineering and database development and administration, develop the knowledge, skills and competencies to build a wide range of applications to solve the technological challenges of today and tomorrow.

See Bachelor of Computer Science, page 12.

Cognitive science

Effectively navigating the world's immense amount of unstructured data requires a new era of computing known as cognitive systems. Cognitive systems learn and interact with people to extend what either humans or machines could do on their own. IBM Watson* is just one example of a cognitive system demonstrating the capacity to answer natural language questions, acquire information, process large amounts of disparate data and learn through repeat interaction.

New in 2016, this major sequence provides students with the fundamental knowledge and technical skills required to design and develop new cognitive computing applications.

Subject areas include: psychology, understanding the mind, thinking systems and cognition science, human behaviour and computer interaction, and data visualisation and decision making.

See Bachelor of Computer Science, page 12.

Cyber security

The delivery of products and services requires data to be processed, transmitted and stored in a secure cyber-environment. Join the exploratory journey and develop a sound knowledge and understanding of concepts and practices applied in cyber security, along with the capability to identify, diagnose, analyse and manage cyber security challenges. Subject areas include computer crime and digital forensics, corporate computer and network security, system security and public-key cryptography.

You also have the option to combine cyber security with criminology, which covers a range of topics concerning the meaning of crime; different forms, causes and consequences, along with the different institutions and processes developed for preventing and controlling crime; and, in the context of cyber security, securing data and data communication, as well as investigating, analysing and providing solutions to computer crime.

See.

Bachelor of Information Technology, page 11 Bachelor of Cyber Security, page 14 Combined courses, pages 16–19.

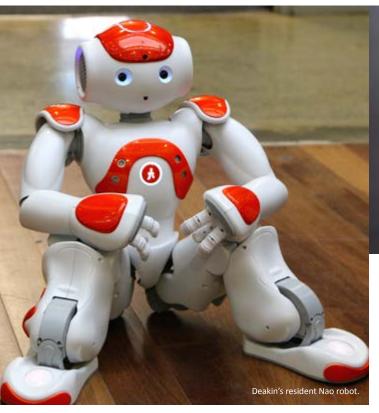
Games design and development

The design and development of computer games provides the opportunity to mix creative skills with technical programming expertise. Game design and development skills are used to develop sophisticated computer game software, create compelling interactive mobile applications and develop innovative new products and experiences. Learn how to design, build and manage computer game projects through multidisciplinary teams, using professional approaches and programming languages, within entrepreneurially focused development environments.

See ...

Bachelor of Games Design and Development, page 13 **Bachelor of Information Technology**, page 11 **Combined courses**, pages 16–19.

* IBM Watson is a question/answer tool that learns with each interaction. Deakin is the first university in the world to partner with IBM and utilise Watson technology to help students find the information they want quickly and more easily.



Cloud computing

Cloud computing is a significant development in IT that is having a major impact on how software solutions are developed, deployed and delivered over the web. Undertake a study of the concepts and technologies of cloud computing and develop the expertise to work in this growing area, both by exploiting public cloud infrastructure options and through the construction of private cloud infrastructure. Subject areas include cloud computing and virtualisation, computer security, enterprise network construction and management, system security and research, and development in IT.

See ..

Bachelor of Information Technology, page 11 **Combined courses**, pages 16–19.

Data science

Data analytics is an integral part of decision-making in all areas of society, including business, finance, government, medicine, research and beyond. Learn the theory, methodologies and techniques that enable you to interpret datasets and uncover hidden patterns in order to make predictions, draw conclusions, drive successful initiatives and make better decisions, with a particular focus on meaningful analyses in the face of huge amounts of data, where traditional approaches may be impractical. Subject areas include a wide spectrum of analytics, including data science concepts, statistics and data analysis, computational decision analysis, data mining and machine learning and advanced data science.

See *Bachelor of Computer Science*, page 12.

Information systems

The study of information systems delivers an appreciation of 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 opportunities.

See ..

Bachelor of Information Systems, page 14 **Combined courses**, pages 16–19.



Interactive media design

Combining both technical IT and creative skills, this study area 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. 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.

See ..

Bachelor of Information Technology, page 11 **Combined courses**, pages 16–19.

Mobile and apps development

Mobile apps are the future of computing. They are used across multiple platforms, including phones, tablets, watches, cars, tv systems and websites. All devices are programmable, and thus provide a new market for apps to be developed and updated. In this rapidly growing field, talented developers are in demand to update existing apps and create new ones. This study area provides the skills to design, create and publish mobile apps, and can lead to work with businesses, government, tech companies or start-ups.

See ...

Bachelor of Information Technology, page 11 **Combined courses**, pages 16–19.

Programming

Programming equips you with the skills to develop and implement modern computer software on different types of computing platforms, from mobile devices to high performance servers. Graduates implement complex software, databases and networks in real world, rapidly changing environments.

See ..

Bachelor of Information Technology, page 11 **Combined courses**, pages 16–19.

Robotics and cyber-physical computing

Robotics and cyber-physical systems have emerged as a major commercial technology sector, combining software and hardware to enable products from autonomous vehicles to fitness trackers and smart homes. Specialists in robotics and cyber-physical computing work alongside hardware engineers and generalist application developers, employing specific skills and knowledge to integrate and control diverse hardware devices; collect, communicate and analyse sensor data streams; and develop and employ novel algorithms that allow these systems to act in response to their environment. Common development practices in this field involve rapid prototyping and iterative refinement and demand new skill sets from computing professionals.

See Bachelor of Computer Science, page 12.

GETTING INTO DEAKIN

Life doesn't always follow a straight line – and your path to Deakin doesn't have to either.



Finishing Year 12?

If you are finishing Year 12, you can apply for most of Deakin's undergraduate courses commencing in Trimester 1 (March) through the Victorian Tertiary Admissions Centre (VTAC) at **vtac.edu.au**. For courses commencing in Trimester 2 (July) or Trimester 3 (November), apply directly to Deakin at **deakin.edu.au/apply**.

Finished Year 12 a few years ago?

If you're returning to study after a break, you can apply for most of Deakin's undergraduate courses (bachelor's degrees) commencing in Trimester 1 (March) through the Victorian Tertiary Admissions Centre (VTAC), or you may be able to apply directly to Deakin. For courses beginning in Trimester 2 (July), or Trimester 3 (November), apply directly to Deakin at deakin.edu.au/apply.

For international students

Once you have chosen a degree and checked all entry requirements, applying to study at Deakin is simple.

When can I apply?

Applications for international students are open all year. There are three trimester intakes for which you can apply – March, July and November – depending on your chosen course.

How do I apply?

Once you have organised all the necessary documentation, you can submit your application using one of the following methods:

Applying online

To apply online, visit the applicant portal at deakin.edu.au/apply.

Applying by email

After completing the relevant application forms you can email your application to deakin-int-admissions@deakin.edu.au.

What are pathways?

Pathways provide alternative options for entry into university if you currently do not meet the requirements. You can choose pathways through TAFE, other tertiary institutions or private providers, through the workforce or even through other Deakin courses or campuses.

Pathways through Deakin

You can take many different pathways through Deakin to get into your dream course, including transferring between Deakin courses or campuses or undertaking a single unit of study, which can be used as credit towards a degree.

Pathways through Deakin College

Deakin College offers an excellent pathway to Deakin for students who do not meet the admission requirements. The first year of a Deakin College diploma is equivalent to the first year of the relevant Deakin degree. Upon satisfactory completion of a Deakin College diploma, and subject to meeting University entrance criteria, domestic graduates are eligible to apply for a Commonwealth Supported Place in the second year of the relevant Deakin undergraduate degree.

Deakin College is located at Deakin's Melbourne Burwood Campus, Geelong Waterfront Campus and Geelong Waurn Ponds Campus, giving you access to Deakin's facilities and services and allowing you to get involved in uni life while at Deakin College.





FIND OUT WHAT CREDIT YOU'RE ELIGIBLE FOR

Your previous studies and experience can lead to credit towards your chosen course. This not only saves you time and money, but also increases your educational options. To find out what credit you may be eligible for, search our Credit for Prior Learning database at deakin.edu.au/courses/credit/search.php.

Pathways through TAFE

If you undertake an eligible TAFE course in a field similar to the Deakin course of your choice, you may be able to gain a guaranteed place at Deakin and credit for prior learning towards your Deakin degree.

Complete a guaranteed entry pathway

Guaranteed entry pathways enable you to progress seamlessly from selected TAFE courses to Deakin degrees. Deakin offers guaranteed entry pathways from a number of TAFE partners to university in a growing range of disciplines.

If you are taking a guaranteed entry pathway, as long as your study performance meets the required standard, you will be guaranteed a place at Deakin following successful completion of your TAFE course and benefit from up to 18 months' credit towards your Deakin degree.

Currently, guaranteed entry pathways are available at Bendigo TAFE, Box Hill Institute, Chisholm, The Gordon, Kangan Institute, Melbourne Polytechnic, South West Institute of TAFE and TAFE NSW — Riverina Institute. For the most up-to-date list of guaranteed pathways, visit deakin.edu.au/pathways.

Complete a relevant TAFE course

If you undertake an eligible TAFE or Registered Training Organisation (RTO) course in a field similar to the Deakin course of your choice, you may gain credit towards your Deakin degree. A wide range of courses lead to credit transfer and recognition, and all TAFE qualifications are considered for application to Deakin.

Pathways through other educational institutions

If you're currently studying at another university and wish to transfer to Deakin to finish your degree, you can apply for credit for prior learning. All university and private education provider qualifications are considered for application, even if the qualification is unrelated to what you want to study at Deakin.

Pathways through the workforce

You may be able to gain entry to Deakin, or credit towards a Deakin course, based on your work experience or prior industry training.



Technology, probably by definition, is always changing. It's working and living at the frontier. It's advancing and being part of the advance of new inventions every single day. It's taking those inventions and seeing what else we can make them do. Whether it's apps for the desktop, or mobile phones, or watches or glasses or TVs and wherever the future goes, there will always be new devices that we can make more useful with our skills as IT developers.'



For more information on getting into Deakin, visit deakin.edu.au/pathways.

COURSES

	Campus or	Trimester	Duration	Fees#	IELTS~	Page
	learning centre	intake options				
Bachelor of						
Information Technology S326	B WP C	T1, T2	3	\$8873	6/6	11
Computer Science S306	ВС	T1, T2	3	\$8882	6/6	12
Games Design and Development S333	B WP C	T1, T2	3	\$8871	6/6	13
Cyber Security S334	B WP C	T1, T2	3	\$8829	6/6	14
Information Systems M340	B WF C	T1, T2¥	3	\$9065	6/6	14
Global Science and Technology Program*	B WP	^	۸		6/6	15
Related course						
Bachelor of						
Commerce M300	B WF WB C	T1, T2 [§] , T3 ^ø	3	\$10 023	6/6	15
IT/IS-related major sequences: business analytics,	CR DA WE †					
business information systems.						

For information on the benefits of studying a combined course at Deakin, and what's available in IT, see page 16–19.

- # 2016 indicative Commonwealth Supported Place (CSP) fee. Fees quoted are for Australian domestic students and are based on a typical enrolment in one year of full-time study. They should be used as a guide only and are subject to change. International students: refer to deakin.edu.au/study-at-deakin/fees for more information on fees.
- ELTS is the International English Language Testing System (for international students only). The IELTS scores in the table above reflect the minimum overall score required as well as the lowest score allowed for any band (overall score/lowest band score).
- ¥ Intake available at Melbourne Burwood Campus and Cloud Campus only.
- * Available for high-achieving students with a minimum ATAR of 80.00. Applicants must also meet the published prerequisites for their specific course preference within the Faculty of Science, Engineering and Built Environment.
- ^ Refer to specific course entry.
- † Applicants must apply directly to Deakin University. The first year only is available at the Deakin learning centres in Craigieburn, Dandenong and Werribee. Learning centre offerings are not available to international students.
- § Trimester 2 intake is not offered at the Warrnambool Campus for international students.
- ø Trimester 3 intakes are only available at Melbourne Burwood Campus for domestic and international students. Trimester 3 Cloud Campus offering is not available to
 international students.



Please refer to deakin.edu.au/courses

for the most up-to-date information on courses.





Facebook, Google and Microsoft were all established while their founders were still at university.

A small group of academics from Deakin's School of Information Technology have set up the Deakin Incubator Group (DIG) to give students 'real world' experience on campus. Through DIG, students are provided with the opportunity to set up commercial companies and develop insight into the marketplace.

Dr Greg Bowtell, one of the academics behind the concept, was among the first intake of Deakin's Bachelor of Game Design (now Bachelor of Games Design and Development) in 2005. After spending some time in the workforce, he returned to complete his honours and PhD study, focusing on identifying ways that the curriculum could continue to produce job-ready graduates in a competitive market.

'My research showed that IT students and others, particularly those in the creative industries, need experience on commercial projects to improve their job-readiness before they graduate,'

'The new hub provides evidence that students have the commitment and passion to complete extracurricular work and show they have the wherewithal to gain the skills

The hub is open to any enrolled student at Deakin and projects could span the spectrum of IT-related jobs, from app design, to augmented reality, game design or wearable computing. Free apps created by the students - showcasing their talents - will be available from the DIG website.

Visit deakin.edu.au/information-technology for the latest information.

'My favourite subject is mathematics. I love solving problems. For me studies in IT security and cloud computing seemed a great fit.

HANI ALABDRABUNNABI

Information technology student

BACHELOR OF INFORMATION TECHNOLOGY B WP C

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR	
S326	3	■ 60.80 WP 56.00 C Unpublished~	
YEAR 12 PREREQUI	SITES	NON-YEAR 12 REQUIREMENTS	
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.		Educational history including GPA. Applicants who wish for experience to be considered must include this information on their VTAC Personal Statement.	
International student entry requirements can be found at:			

The Bachelor of Information Technology is our most generalist IT course and provides you with the knowledge, skills and experience necessary to keep abreast of this rapidly changing field. In addition to acquiring a core set of IT skills that are relevant in almost every industry, you will have the opportunity to choose from a diverse range of IT specialisations according to your interests and career aspirations. We offer a full range of IT disciplines from the technical (software development and cloud computing) to the creative (interactive media design and games design). You can further diversify your studies through elective units in IT and/or complementary study areas.

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

Professional recognition

Australian Computer Society (ACS).

Career opportunities

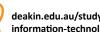
Diverse career opportunities include object-oriented and procedural programmer, database and web designer, network manager, component integrator, project manager, consultant or system analyst.

Course structure

24 credit points - nine core IT units (including a compulsory internship unit), at least one IT major sequence and nine elective units (which may be used to complete a second major sequence). An honours year is available for high-achieving students upon completion of this degree.

Major sequences

- Game development B WP C
- Interactive media design B
- Mobile and apps development B C
- Programming B WP C
- Security B WP C
- Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.



COURSES

BACHELOR OF COMPUTER SCIENCE B

DURATION 2016 CLEARLY-IN ATAR DEAKIN CODE S306 B 64.45 C Unpublished~ YEAR 12 PREREQUISITES NON-YEAR 12 REQUIREMENTS VCE units 3 and 4 - a study score of Educational history including GPA. at least 25 in English (EAL) or 20 in Applicants who wish for experience English other than EAL. to be considered must include this information on their VTAC Personal

International student entry requirements can be found at: deakin.edu.au/study-at-deakin/international-students.

Bachelor of Computer Science students undertake a comprehensive and systematic study of existing and emerging computational systems and theories and gain the skills to develop and build new and cutting-edge software systems and products. Develop an understanding of how computing solutions are conceptualised, elaborated and constructed, providing you with experience in applying this knowledge of design and develop new solutions to existing and emerging problems.

Focusing on the technological aspects, including analytics, cognitive computing, computer programming, software engineering and database systems, you develop the knowledge, skills and competencies to build a wide range of applications to solve the technological challenges of today and tomorrow.

You also develop skills in critical thinking, problem-solving, team work and communication through a variety of platforms. Hands-on experiential learning is a key component of this course, with access to specialised computer laboratories, the opportunity to study for industry certifications and to learn from professional industry guest lecturers.

Professional recognition

The Bachelor of Computer Science has been designed in accordance with Australian Computer Society (ACS) professional accreditation requirements. The School of Information Technology is currently seeking professional accreditation for the Bachelor of Computer Science with the ACS.

Industry certification

In addition to studying towards a Bachelor of Computer Science, students have

Career opportunities

Diverse career opportunities include software development, software analysis and design, system analytics, business analytics, database development and administration, web development, new technology research, project management, solutions architecture, systems programming and network administration. Graduates will be well suited to employment in organisations engaged in software development, big data analysis and cognitive computing infrastructure.

Work-integrated learning

This course includes an internship unit that provides professional work experience with an approved host organisation. Students may also have the opportunity to work on commercial/real-world products, gaining experience in entrepreneurship and business skills around software production and publishing.

Industry experience is available in every IT course, see page 3.

Course structure

24 credit points - 16 core units (which includes a compulsory internship unit), a major sequence (6 credit points) and elective units (2 credit points).

Major sequences

- Cognitive science

 Cognitive science
- Data science B C
- Robotics and cyber-physical computing B C
- Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.



deakin.edu.au/study-at-deakin/find-a-course/ computer-science



BACHELOR OF GAMES DESIGN AND DEVELOPMENT B WP C

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
S333	3	B 63.00 WP Unpublished~ C Unpublished~
YEAR 12 PREREQUIS	SITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.		Educational history including GPA. Applicants who wish for experience to be considered must include this information on their VTAC Personal Statement.

International student entry requirements can be found at: deakin.edu.au/study-at-deakin/international-students.

Deakin's Bachelor of Games Design and Development provides you with the skills and knowledge to thrive in this dynamic field. A growing industry, with wide-ranging application, the Bachelor of Games Design and Development provides you with the skills to design and develop computer games, ranging in complexity from small interactive apps, larger PC and console-based systems, as well as massive multiplayer systems.

A dynamic studio learning environment provides access to games studios, where you can interact and develop team-based projects.

Professional recognition

Australian Computer Society (ACS)

Career opportunities

Diverse IT job opportunities include game designer, game developer or game programmer, project manager, component integrator, multimedia system designer and developer or consultant.

Work-integrated learning

Industry experience is available in every IT course, see page 3.

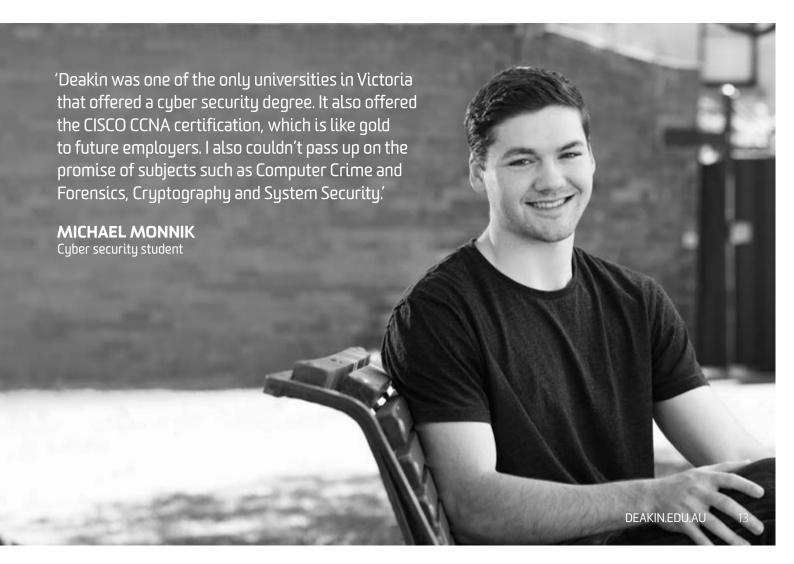
Course structure

24 credit points – 18 core units (which includes a compulsory internship unit) and six elective units. An honours year is available for high-achieving students upon completion of this degree.

Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.



deakin.edu.au/study-at-deakin/find-a-course/games-design-and-development



COURSES

Course duration in years

Melbourne Burwood Campus

Geelong Waterfront Campus

Wer

Geelong Waurn Ponds Campus

Warnambool Campus

Cloud Campus

C

Learning centre – Craigieburn Learning centre – Dandenong Learning centre – Werribee

n CR

BACHELOR OF CYBER SECURITY B WP G

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR	
S334	3	□ Unpublished~ W□ Unpublished~ □ Unpublished~	
YEAR 12 PREREQUISI	TES	NON-YEAR 12 REQUIREMENTS	
	– a study score of lish (EAL) or 20 in n EAL.	Educational history including GPA. Applicants who wish for experience to be considered must include this information on their VTAC Personal Statement.	
International stu	dont ontry requirem	ants can be found at:	

International student entry requirements can be found at: deakin.edu.au/study-at-deakin/international-students.

Deakin's Bachelor of Cyber Security provides you with a sound knowledge and understanding of general issues, concepts and practices in cyber security. Gain practical and theoretical knowledge in this critical area of IT, with an emphasis on understanding and assessing the need for cyber security in a working environment, knowledge of the security solutions available and an understanding of the business, ethical and legal implications of risk management.

Professional recognition

Australian Computer Society (ACS)

Career opportunities

Diverse 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 cyber security engineer.

Work-integrated learning

Industry experience is available in every IT course, see page 3.

Course structure

24 credit points - 17 core units (which includes a compulsory internship unit) and seven elective units. An honours year is available for high-achieving students upon completion of this degree.

Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.

BACHELOR OF INFORMATION SYSTEMS

B WF C

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
M340	3	B Unpublished~ WF Unpublished~ C Unpublished~
YEAR 12 PREREQUISIT	ES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 at least 25 in English other than	sh (EAL) or 20 in	Educational history including GPA and VTAC Personal Statement.

International student entry requirements can be found at: deakin.edu.au/study-at-deakin/international-students.

If information technology (IT) is the central nervous system of our modern technological world, then information systems (IS) is the blood that pumps through the veins. 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.

Career opportunities

Diverse career opportunities include specialist information systems roles, such as project manager, business analyst, security analyst, database developer, web designer and information systems project leader.

Course structure

24 credit points – 17 credit points of core units from the School of Information and Business Analytics and 8 credit points of unspecified elective units (to enable you to include a 6- or 8-credit-point major sequence). An honours year is available for high-achieving students upon completion of this degree.

Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.

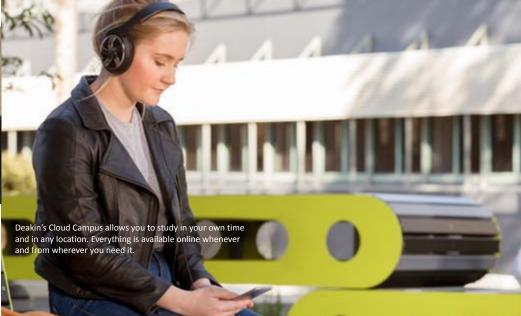


deakin.edu.au/study-at-deakin/ find-a-course/information-systems



deakin.edu.au/study-at-deakin/find-a-course/information-technology









GLOBAL SCIENCE AND TECHNOLOGY PROGRAM W

DEAKIN CODE DURATION
Refer to specific course entry.

B 80.00* WP 80.00*

YEAR 12 PREREQUISITES

Applicants must meet the prerequisites for their specific information technology preference.

WP 80.00*
EXTRA REQUIREMENTS

2016 CLEARLY-IN ATAR

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 at Deakin is designed to add an international experience to your IT degree. A minimum clearly-in 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.

Course structure

You are able to select any one of the undergraduate degrees offered by the Faculty of Science, Engineering and Built Environment through a single VTAC preference for the Global Science and Technology Program.

It is recommended that applicants also apply separately to their Deakin IT-based course as a lower preference. Refer to specific course entries and campus offerings in this booklet for the list of information technology courses available.

* Minimum clearly-in ATAR. Applicants must also meet the published prerequisites for their specific information technology preference within the Faculty of Science, Engineering and Built Environment.



deakin.edu.au/sebe/global

RELATED COURSE

BACHELOR OF COMMERCE 3 B WF WB C CR DA WE

Deakin's Bachelor of Commerce is a popular choice, with its solid foundation in business studies and flexibility to choose from 11 major sequences. As a Bachelor of Commerce student you 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.

Bachelor of Commerce major sequences that are related to information technology and information systems are business analytics and business information systems.

Please refer to the 2017 Undergraduate Business booklet for more information on this course or visit ${\it deakin.edu.au/business}$.

Note: not all major sequences are available at all campuses or learning centres. The first year only is available at the Deakin learning centres in Craigieburn, Dandenong and Werribee. Deakin learning centre study options are not available to international students. Find out more by visiting deakin.edu.au/study-at-deakin/study-options-and-pathways/pathways-to-deakin/learning-centres.

ENHANCE YOUR STUDY AND DISCOVER THE WORLD

Work-integrated learning opportunities for information systems and information technology students include internships, community-based volunteering, industry-based learning and international study opportunities.

deakin.edu.au/buslaw/wil

deakin.edu.au/sebe/enhance-study

COMBINED COURSES

Some courses at Deakin allow you to undertake two degrees concurrently. You can complete two degrees with just one extra year of study saving you time and money.



	Campus	Trimester intake options	Duration	Fees#	IELTS~	Page
Combined courses						
Bachelor of / Bachelor of						
Information Systems/Information Technology D371	ВС	T1, T2	4	\$8961	6/6	17
Criminology/Cyber Security D380	B WP C	T1, T2, T3^	4	\$7614	6/6	17
Commerce/Information Systems D366	B WF C	T1, T2, T3¥	4	\$9798	6/6	18
Information Systems/Arts D370	B WF C	T1, T2	4	\$7431	6/6	18
Information Systems/Health Sciences D368	B WF	T1, T2*	4	\$8853	6/6	19
Information Systems/Laws D367	B WF C	T1, T2†	5	\$9757	7/6.5	19

- # 2016 indicative Commonwealth Supported Place (CSP) fee. Fees quoted are for Australian domestic students and are based on a typical enrolment in one year of full-time study. They should be used as a guide only and are subject to change. International students: refer to deakin.edu.au/study-at-deakin/fees for more information on fees.
- ELTS is the International English Language Testing System (for international students only). The IELTS scores in the table above reflect the minimum overall score required as well as the lowest score allowed for any band (overall score/lowest band score).
- ^ Trimester 3 intake is not available to international students.
- Trimester 3 intake is only available at Cloud Campus. Trimester 3 intake is not available to international students.
- * Trimester 2 intake only available at the Melbourne Burwood Campus.
- † Trimester 2 intake only available at Melbourne Burwood Campus and Cloud Campus.

Increase your career options

Studies have shown that employers prefer graduates of combined courses. Deakin offers powerful combinations that will help you stand out as a graduate and increase your career options.

Expand your knowledge

When you graduate you'll have up-to-date knowledge of two disciplines. Later on, you may choose to undertake a graduate program in another area of special interest.

Graduate sooner

Combined courses are designed to allow students to simultaneously complete two courses in as little as four or five years, which is quicker than completing one degree followed by the other.

It doesn't double the work

Combined courses are structured in such a way that you will normally study four units (subjects) per trimester, just the same as you would if you were completing a single degree.

Work-integrated learning

Deakin graduates hit the ground running thanks to work-integrated learning programs embedded in our combined courses. We offer a wide range of programs that help give students a taste of the real world, from internships to community-based volunteering and more.

Study interesting and complementary areas

A combined degree allows you to undertake complementary studies in both degrees while exploring particular areas of interest to you. Through careful planning you could structure your course to undertake studies in information technology together with studies in information systems, or cyber security and criminology. Alternatively you may choose to combine information systems with studies in arts, health sciences or law.

Professional recognition

Many of our courses are professionally accredited, providing industry recognition of the quality of qualifications received at Deakin.



BACHELOR OF INFORMATION SYSTEMS/ BACHELOR OF INFORMATION TECHNOLOGY

ВС		
DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
D371	4	B Unpublished~ C Unpublished~
YEAR 12 PREREQU	IISITES	NON-YEAR 12 REQUIREMENTS
	d 4 – a study score of nglish (EAL) or 20 in han EAL.	Educational history including GPA. Applicants who wish for experience to be considered must include this information on their VTAC Personal Statement.
	tudent entry requiremo /study-at-deakin/inter	

In today's IT job market multiskilling, multitasking and cross-skilling are highly valued. On a daily basis, we all use some form of IS or IT for business processes and management, creative output or communication. With the information and communications technology sector thriving, graduates of this course are well placed for a successful career in management of IT in business, industry or government.

Course structure

32 credit points – 14 core units and two elective units (Bachelor of Information Systems) and 16 credit points (Bachelor of Information Technology – six IT core units, one information technology major sequence, four information technology course grouped units).

 $^{\sim}~$ Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR		
D380	4	■ 60.30 WP Unpublished~ C Unpublished~		
YEAR 12 PREREQU	ISITES	NON-YEAR 12 REQUIREMENTS		
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.		Educational history including GPA. Applicants who wish for experience to be considered must include this information on their VTAC Personal Statement.		
International st	International student entry requirements can be found at:			

Deakin's Bachelor of Criminology/Bachelor of Cyber Security is the only degree of its kind in Australia. Bringing together two independent degrees, the course provides you with skills in securing data and data communications, as well as investigating, analysing and providing solutions to computer crime.

Professional recognition

Australian Computer Society (ACS).

Course structure

32 credit points – 16 credit points (Bachelor of Criminology) and 16 credit points (Bachelor of Cyber Security).

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

Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.

At Deakin we want to help you get the most out of your learning experience and we have a team of staff and students dedicated to providing study support services to help you achieve this.



deakin.edu.au/study-at-deakin/find-a-course/information-technology



deakin.edu.au/study-at-deakin/find-a-course/information-systems



deakin.edu.au/study-at-deakin/find-a-course/ criminology



deakin.edu.au/study-at-deakin/find-a-course/information-technology

COMBINED COURSES

BACHELOR OF COMMERCE/BACHELOR OF INFORMATION SYSTEMS **B WE G**

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
D366	4	B 75.15 WF Unpublished~ C Unpublished~
YEAR 12 PREREQUISIT	TES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 at least 25 in English other than	, ,	Educational history including GPA and VTAC Personal Statement.

International student entry requirements can be found at: deakin.edu.au/study-at-deakin/international-students.

This course 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 careers

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 a wide range of professional bodies, dependent on major sequences selected.

Course structure

32 credit points – 16 credit points (Bachelor of Information Systems) and 16 credit points (Bachelor of Commerce, including at least one commerce major sequence).

Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.

BACHELOR OF INFORMATION SYSTEMS/ BACHELOR OF ARTS D WE' C

2016 CLEARLY-IN ATAR
B Unpublished~ WF Unpublished~ C Unpublished~
NON-YEAR 12 REQUIREMENTS
Educational history including GPA and VTAC Personal Statement.

International student entry requirements can be found at: deakin.edu.au/study-at-deakin/international-students.

The Bachelor of Information Systems/Bachelor of Arts is a flexible degree that allows you to combine generalist studies in arts with specialist studies in information systems. Information systems graduates are in demand and, with high graduate salaries on offer, an IS degree, combined with an arts degree tailored to your interests, leads to a wide range of satisfying and rewarding career opportunities.

Course structure

32 credit points – 16 credit points (Bachelor of Information Systems) and 16 credit points (Bachelor of Arts).

- Students enrolled at the Geelong Waterfront Campus will be required to undertake some units at the Geelong Waurn Ponds Campus.
- Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available

TIPS TO DEVELOP YOUR CYBER SMARTS

Most of us know that installing antivirus software on your laptop and changing your Facebook password occasionally is a good idea when it comes to protecting yourself online.

However, did you know that the selfie you took in your lounge room and uploaded to Twitter might reveal your home address? Or that the 'Free Wi-Fi' network at your local cafe may be harvesting your sensitive details as you type?

Deakin University cyber security expert, Professor Yang Xiang, explains that as hackers develop increasingly sophisticated methods, it can be difficult to keep up.

'Internet safety is just as important for adults as it is for children and teens,' he said.

'Privacy concerns, identity theft and cyberstalking are just some of the potential issues that we all need to be aware of when we're online – not only on our computers but also smart phones.'

Visit deakin.edu.au/information-technology/research for more IT research stories.



BACHELOR OF INFORMATION SYSTEMS/ BACHELOR OF HEALTH SCIENCES Wan

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
D368	4	■ Unpublished~ WF Unpublished~
YEAR 12 PREREQUIS	ITES	NON-YEAR 12 REQUIREMENTS
VCE units 3 and 4 – a study score of at least 30 in English (EAL) or 25 in English other than EAL.		VTAC Personal Statement, academic results and GPA or interview.
International stu	dent entry requireme	ents can be found at:

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

The IT and health sectors are both thriving, with demand for graduates high,

The IT and health sectors are both thriving, with demand for graduates high, creating exciting and diverse career opportunities. This combined course is flexible, providing a range of exciting opportunities and equipping graduates with the skills needed to work in a variety of settings.

Course structure

32 credit points – 16 credit points (Bachelor of Information Systems) and 16 credit points (Bachelor of Health Sciences).

- Students enrolled at the Geelong Waterfront Campus will be required to undertake some units at the Geelong Waurn Ponds Campus.
- Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.

HAPPINESS LEADS TO SUCCESS



DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
D367	5	B Unpublished~ WF Unpublished~ C Unpublished~

YEAR 12 PREREQUISITES

VCE units 3 and 4 – a study score of at least 35 in English (EAL) or 25 in English other than EAL.

NON-YEAR 12 REQUIREMENTS

Educational history including GPA, VTAC Personal Statement and ALSET. For more information on the ALSET, including exemption criteria, please visit deakin.edu.au/buslaw/law/students/alset.

International student entry requirements can be found at: deakin.edu.au/study-at-deakin/international-students.

Combining information systems with law prepares 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.

Professional recognition

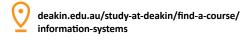
Deakin's law studies satisfy the academic requirements for admission to practise law in Victoria.

Course structure

 $40\ credit\ points - 24\ credit\ points$ (Bachelor of Laws) and 16\ credit\ points (Bachelor of Information Systems).

Unpublished means that the course is available at that campus, but the clearly-in ATAR isn't available.





COURSES TO CAREERS

At Deakin, we're about careers and experience, not just courses. Here are just a few of your future career opportunities.



COURSE

Development

Bachelor of Computer Science

Bachelor of Games Design and

Bachelor of Information Systems

Bachelor of Information Technology

Bachelor of Cyber Security

POSSIBLE CAREERS

- Software developer
- Database and web developer
- Network and systems manager
- Game developer
- · Component integrator
- · Multimedia systems designer
- Business analyst
- Information systems auditor
- Information systems consultant
- Network manager
- Programmer
- System analyst
- · Security and risk analyst
- Security system manager
- Security engineer

AREAS YOU COULD WORK IN

- Business
- Cloud computing
- Cyber security
- Data analytics
- Management
- Mobile and apps development
- Network security
- Programming
- Project management
- Software development
- · Statistics and data analysis

WHAT EMPLOYERS WANT IN THEIR EMPLOYEES

- Interpersonal communication skills
- Passion
- Logic and technical skills
- Good academic results
- Work experience
- A good cultural fit
- Emotional intelligence
- Teamwork skills
- Leadership skills

Source: Graduate Outlook Survey, Graduate Careers Australia





FEATURE CAREER

App designer

Design games, business and utility applications to make the digital world easier to navigate and more entertaining.

Attribute

Technical know-how; good communication skills; ability to multitask; teamwork skills; creative thinking.

Indicative average salary

\$81 000

FEATURE IT AREA

Data analytics

Data analytics is the science of examining raw data with the purpose of drawing conclusions about that information. It is used by many organisations to make better business decisions or to verify or disprove existing models or theories.

Attributes

Logic and technical skills; attention to details; good communication skills.

Indicative average salary

\$66 000



GO ONLINE

Visit us online at **deakin.edu.au** for detailed information on everything at Deakin.

See also ...

deakin.edu.au/study-at-deakin/find-a-course/information-technology

deakin.edu.au/information-technology

deakin.edu.au/study-at-deakin/find-a-course/information-systems

deakin.edu.au/study-at-deakin/find-a-course/ new-courses for up-to-date information on new courses and unit offerings

deakin.edu.au/courses for more information about course structures, major sequences and unit descriptions.

TALK TO US

For more information and all general enquiries, please phone 1800 MYFUTURE (1800 693 888). You can also contact us via email at myfuture@deakin.edu.au.

VISIT US

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

To organise a campus tour and presentation for an individual or group, please phone 1800 MYFUTURE (1800 693 888), email myfuture@deakin.edu.au or visit deakin.edu.au.

For our 2016 Open Day dates, see the back cover of this booklet.

For more information on event dates, visit **deakin.edu.au** or phone 1800 MYFUTURE (1800 693 888).

Social media at Deakin

Connect with Deakin University on Facebook, Twitter, Instagram and LinkedIn. Gain an insight into life and study at Deakin and talk with other future and current students.

- facebook.com/DeakinUniversity
- twitter.com/Deakin
- twitter.com/DeakinSEBE
- instagram.com/DeakinUniversity
- Search Deakin University

Other useful websites

Victorian Tertiary Admissions Centre. **vtac.edu.au**

Australian Government site detailing higher-education options in Australia. studyassist.gov.au

Online career exploration and information service.

www.myfuture.edu.au

Australian Government site providing advice for young people thinking about their future and looking for work.

www.youth.gov.au

Victorian Government site with information about jobs and careers. www.youthcentral.vic.gov.au

Further reading

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

You can download copies of these brochures at deakin.edu.au/course-guides, or to request copies email myfuture@deakin.edu.au or phone 1800 MYFUTURE (1800 693 888).

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.



2016 DEAKIN UNIVERSITY OPEN DAYS

07.08.16 9 AM-3 PM WARRNAMBOOL CAMPUS Princes Highway

Princes Highway
Warrnambool Victoria

21.08.16 9 AM-3 PM GEELONG WAURN PONDS CAMPUS 75 Pigdons Road

Waurn Ponds Victoria

GEELONG
WATERFRONT CAMPUS
1 Charicachas Street

1 Gheringhap Street Geelong Victoria

28.08.16
9 AM-4 PM
MELBOURNE
BURWOOD CAMPUS
221 Burwood Highway
Burwood Victoria

1800 MYFUTURE (1800 693 888) deakin.edu.au

Published by Deakin University in April 2016. While the information published in this guide was accurate at the time of publication Deakin University reserves the right to alter, amend or delete details of course offerings and other information published here. For the most up-to-date course information please view our website at **deakin.edu.au**.

