2017 UNDERGRADUATE
INFORMATION TECHNOLOGY
Geelong I Melbourne I Warrnambool I Cloud Campus

COMPUTER SCIENCE
GAMES DESIGN AND DEVELOPMENT
CYBER SECURITY
INFORMATION TECHNOLOGY
INFORMATION SYSTEMS
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.
In today’s society, information technology is at the very centre of the way we work, learn, communicate, socialise and entertain ourselves.

**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.
Close industry partnerships

Deakin recognises the importance of being closely aligned with industry, maintaining strong partnerships with organisations such as IBM, EON Reality, Telstra, ANZ and government agencies. These organisations provide us with curriculum advice, keeping our courses current and relevant to industry needs, which is key in a sector where change is constant.

Deakin also hosts guest speakers from key industry partners on a regular basis, keeping you abreast of industry trends, as well as providing important networking opportunities.

INDUSTRY EXPERIENCE IS NOW AVAILABLE IN EVERY INFORMATION TECHNOLOGY COURSE

Every IT student at Deakin has the opportunity to undertake an internship, providing you with an opportunity to apply your learning and gain valuable industry experience, which is credited towards your degree. An internship enables you to experience a professional work environment, develop professional networks and explore career opportunities before you graduate. High-achieving students also have opportunities to apply for full-time, part-time or short-term industry-based learning positions, with industry-funded scholarships on offer.

deakin.edu.au/sebe/students/wil
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.
You can study IT in Geelong, Melbourne or online via the Cloud Campus, where Deakin embraces the best of new and emerging technologies. Genuine flexibility is a key feature of our courses, in which you can study either part time or full time and choose specialist areas and tailor courses to suit your career aspirations.

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

‘I’ve had so many opportunities during my time at Deakin. I’ve been on study tours to China, Japan and Indonesia. I’ve also had the chance to complete a 12-month industry placement between my second and third years. These experiences have been so positive and really enhanced my learning at Deakin.’

BETHANY SMITH
Information technology (honours) student
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.

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.

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.
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.

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

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### Related course

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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.

* IELTS 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.
‘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

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,’ he says.

‘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 they need.’

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.

DEAKIN INCUBATOR GROUP (DIG)

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Visit deakin.edu.au/information-technology for the latest information.
Bachelor of Computer Science

DEAKIN CODE: S306
DURATION: 2016 CLEARLY-IN ATAR 64.45

YEAR 12 PREREQUISITES
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.

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 the opportunity to undertake industry certification curriculum, such as the Cisco Certified Network Associate (CCNA) through Deakin’s Cisco Academy.

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
- Data science
- Robotics and cyber-physical computing

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

COURSES
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 was one of the only universities in Victoria that offered a cyber security degree. It also offered the CISCO CCNA certification, which is like gold to future employers. I also couldn’t pass up on the promise of subjects such as Computer Crime and Forensics, Cryptography and System Security.’

MICHAEL MONNIK
Cyber security student
COURSES

BACHELOR OF CYBER SECURITY

DEAKIN CODE
DURATI0N
2016 CLEARLY-IN ATAR
S334
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YEAR 12 PREREQUISITES
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.

NON-YEAR 12 REQUIREMENTS
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 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.

Deakin’s Cloud Campus allows you to study in your own time and in any location. Everything is available online whenever and from wherever you need it.

BACHELOR OF INFORMATION SYSTEMS

DEAKIN CODE
DURATI0N
2016 CLEARLY-IN ATAR
M340
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~
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YEAR 12 PREREQUISITES
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.

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.

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
DeakinSync is a personal online hub giving Deakin students, staff and alumni easy access to relevant University resources, customised to their specific needs. You can access everything from unit sites to enrolment details, study tools to your calendar, as well as IBM Watson – a question and answer tool.

Visit deakin.edu.au/deakinsync or ibmwatson.deakin.edu.au for more information.

IBM Watson is a trademark of International Business Machines Corporate, registered in many jurisdictions worldwide.

**GLOBAL SCIENCE AND TECHNOLOGY PROGRAM**

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 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.

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<th>Combined courses</th>
<th>Campus</th>
<th>Trimester intake options</th>
<th>Duration</th>
<th>Fees*</th>
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<td>Bachelor of ... / Bachelor of ...</td>
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<tr>
<td>Information Systems/Information Technology</td>
<td>D371</td>
<td>T1, T2</td>
<td>4</td>
<td>$8961</td>
<td>6/6</td>
<td>17</td>
</tr>
<tr>
<td>Criminology/Cyber Security</td>
<td>D380</td>
<td>T1, T2, T3^</td>
<td>4</td>
<td>$7614</td>
<td>6/6</td>
<td>17</td>
</tr>
<tr>
<td>Commerce/Information Systems</td>
<td>D366</td>
<td>T1, T2, T3^</td>
<td>4</td>
<td>$9798</td>
<td>6/6</td>
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</tr>
<tr>
<td>Information Systems/Arts</td>
<td>D370</td>
<td>T1, T2</td>
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<tr>
<td>Information Systems/Health Sciences</td>
<td>D368</td>
<td>T1, T2*</td>
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<td>$8853</td>
<td>6/6</td>
<td>19</td>
</tr>
<tr>
<td>Information Systems/Laws</td>
<td>D367</td>
<td>T1, T2†</td>
<td>5</td>
<td>$9757</td>
<td>7/6.5</td>
<td>19</td>
</tr>
</tbody>
</table>

* 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.

** IELTS 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.

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### 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.
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).

~ 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.
COMBINED COURSES

BACHELOR OF COMMERCE/BACHELOR OF INFORMATION SYSTEMS

<table>
<thead>
<tr>
<th>DEAKIN CODE</th>
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<tbody>
<tr>
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YEAR 12 PREREQUISITES
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.

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.

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

<table>
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<tbody>
<tr>
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YEAR 12 PREREQUISITES
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.

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 IT 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

DEAKIN CODE | DURATION | 2016 CLEARLY-IN ATAR
---|---|---
D368 | 3 | Unpublished

YEAR 12 PREREQUISITES
VCE units 3 and 4 – a study score of at least 30 in English (EAL) or 25 in English other than EAL.

NON-YEAR 12 REQUIREMENTS
VTAC Personal Statement, academic results and GPA or interview.

International student entry requirements 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, 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

For six consecutive years, Deakin has achieved the highest level of overall student satisfaction amongst Victorian universities. These great results are based on 2010–2015 Australian Graduate Survey responses to ‘Overall Satisfaction’ amongst bachelor’s degree graduates.

BACHELOR OF INFORMATION SYSTEMS/
BACHELOR OF LAWS

DEAKIN CODE | DURATION | 2016 CLEARLY-IN ATAR
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D367 | 4 | 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
VTAC Personal Statement, academic results and GPA or interview.

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.

deakin.edu.au/study-at-deakin/find-a-course/information-systems
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
- Bachelor of Computer Science
- Bachelor of Games Design and Development
- Bachelor of Information Systems
- Bachelor of Information Technology
- Bachelor of Cyber Security

### POSSIBLE CAREERS
- Bachelor of Computer Science: Software developer, Database and web developer, Network and systems manager
- Bachelor of Games Design and Development: Game developer, Component developer, Multimedia systems designer
- Bachelor of Information Systems: Business analyst, Information systems auditor, Information systems consultant
- Bachelor of Information Technology: Network manager, Programmer, System analyst
- Bachelor of Cyber Security: 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.

**Attributes**
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...
deaquin.edu.au/study-at-deakin/find-a-course/information-technology
deaquin.edu.au/information-technology
deaquin.edu.au/study-at-deakin/find-a-course/information-systems
deaquin.edu.au/study-at-deakin/find-a-course/new-courses for up-to-date information on new courses and unit offerings
deaquin.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
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twitter.com/DeakinSEBE
instagram.com/DeakinUniversity
Search Deakin University

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.

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
2016
DEAKIN UNIVERSITY
OPEN DAYS

07.08.16
9 AM–3 PM
WARRNAMBOOL
CAMPUS
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 Cheringhap Street
Geelong Victoria

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

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