

2018 POSTGRADUATE Information technology

Cloud Campus | Geelong | Melbourne | Warrnambool



Cyber security

Data analytics

Data science

Information systems

Information technology

IT strategy and management

Networking

Software and services

Virtual and augmented reality

Research





The IT sector is thriving, and with this field being an essential component to innovation, communication, entertainment, productivity and security across a wide range of industries, IT offers an exciting future. Differentiate yourself in the job market through the combination of hands-on learning, industry experience and theoretical training at Deakin.



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Information technology at Deakin

Professional recognition

IT degrees accredited by the Australian Computer Society (ACS) are well recognised in industry, leading to positive employment opportunities. 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.



Industry-relevant learning

We recognise the importance of maintaining strong industry links and being closely aligned with the IT industry. IT representatives from leading corporate industries and the government sector guide our curriculum and teaching programs, 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.

Practical experience

Whether investigating cyber attacks or identifying hidden patterns in big data, our IT courses provide an immersive learning experience that allows students to gain practical skills in addition to developing an in-depth appreciation for theoretical concepts.

Modern facilities with the latest technology

Deakin continually invests in its facilities and IT programs, ensuring you have access to the latest software and technologies in fully equipped computer labs from day one of your course. For example, the new Robotics IoT lab at Burwood brings you the latest in computing, robotics and cyber-physical systems.

Top ranking university

Deakin is ranked #3 in Australia for graduate employability by the prestigious Times Higher Education index. Deakin was recently ranked Victoria's #1 university under 50 years old by Times Higher Education (2016 and 2017). And as a result of our renowned quality of research and teaching, all three international university rankings put us in the top 2% of the world's universities.

Data sources: Quacquarelli Symonds (QS); Academic Ranking of World Universities, Times Higher Education and QS World University Rankings.

Deakin Hallmarks are awarded as digital credentials that can be shared through professional social platforms such as LinkedIn. They recognise students' outstanding achievement, at course level, of capabilities that are key to employment success.



What can I study?

Cloud Campus **C**
Melbourne Burwood Campus **B**
Geelong Waterfront Campus **WF**
Geelong Waurrn Ponds Campus **WP**
Warrnambool Campus **WB**

Gain credit towards your degree

With Credit for Prior Learning (CPL), your previous study or work experience may make you eligible for credit towards your Deakin degree, reducing the number of units you need to study and allowing you to complete your course earlier and often more affordably. Find out more at deakin.edu.au/courses/credit-for-prior-learning.

	Campus	Course duration in years [#]	Trimester intake options [^]	2018 domestic full fee (8 CP)*	2018 international fee*	IELTS [~]
Coursework degrees						
Master of Cyber Security S734 ADMISSION REQUIREMENTS: A bachelor's degree or other qualification at a higher AQF level in any discipline.	C	1.5–2	T1, T2	\$26 280	\$31 592	6.5/6
Graduate Diploma of Cyber Security S635 ADMISSION REQUIREMENTS: A bachelor's degree in a related discipline or a Graduate Certificate of Information Technology or equivalent. Exit option is available at the graduate certificate (4 credit points) level.	C	1	T1, T2	\$26 280	\$31 592	6.5/6
Graduate Certificate of Cyber Security S535 ADMISSION REQUIREMENTS: A bachelor's degree in a related discipline or a Graduate Certificate of Information Technology or equivalent.	C	0.5	T1, T2	\$13 140 ^ø	\$15 796 ^ø	6.5/6
Master of Cyber Security (Professional) S735 ADMISSION REQUIREMENTS: A bachelor's degree in a related discipline or a Graduate Certificate of Information Technology or equivalent. Exit option is available at the graduate certificate (4 credit points) or graduate diploma (8 credit points) level.	C	2	T1, T2	\$26 280	\$31 592	6.5/6
Master of Data Analytics S777 ADMISSION REQUIREMENTS: A bachelor's degree or other qualification at a higher AQF level in any discipline. Exit option is available at the graduate diploma (8 credit points) level.	C B	1.5–2	T1, T2, T3	\$26 280	\$31 592	6.5/6
Graduate Diploma of Data Analytics S677 ADMISSION REQUIREMENTS: A bachelor's degree in a related discipline.	C B	1	T1, T2, T3 [§]	\$26 280	\$31 592	6.5/6
Master of Information Technology S778 ADMISSION REQUIREMENTS: A bachelor's degree, major or other qualification at a higher AQF level in a related discipline; or a bachelor's degree in any discipline plus three years relevant work experience; or other evidence of academic capability judged to be equivalent. Exit options are available at the graduate certificate (4 credit points) or graduate diploma (8 credit points) level. SPECIALISATIONS: Cyber security C B Data analytics C B IT strategy and management C B Networking B Software and services C B Virtual reality B	C B	1.5	T1, T2, T3	\$26 280	\$31 592	6.5/6
Graduate Diploma of Information Technology S678 ADMISSION REQUIREMENTS: A bachelor's degree in any discipline; or a graduate certificate in any discipline; or at least three years of relevant work experience (or part-time equivalent). Exit option is available at the graduate certificate (4 credit points) level.	C B	1	T1, T2, T3	\$26 280	\$31 592	6.5/6
Graduate Certificate of Information Technology S578 ADMISSION REQUIREMENTS: A bachelor's degree in any discipline; or at least three years of relevant work experience (or part-time equivalent).	C B	0.5	T1, T2	\$13 140 ^ø	\$15 796 ^ø	6.5/6
Master of Information Technology (Professional) S779 ADMISSION REQUIREMENTS: A bachelor's degree in a related discipline; or a Graduate Certificate of Information Technology or equivalent. Exit options are available at the graduate certificate (4 credit points), graduate diploma (8 credit points) or master's (12 credit points) levels. SPECIALISATIONS: Cyber security C B Data analytics C B IT strategy and management C B Networking B Software and services C B Virtual reality B	C B	2	T1, T2, T3	\$26 280	\$31 592	6.5/6
Master of Professional Practice (Information Technology) S789 ADMISSION REQUIREMENTS: A bachelor's degree and at least five years of relevant work experience (or part-time equivalent); or associated Graduate Certificate of Professional Practice. Exit option is available at the graduate certificate (4 credit points) or graduate diploma (8 credit points) level.	C	2–2.5	T1, T2, T3	\$13 140 [≠]	\$13 140 [≠]	6.5/6
Graduate Certificate of Professional Practice (Information Technology) S589 ADMISSION REQUIREMENTS: At least five years of relevant work experience (or part-time equivalent).	C	1–1.5	T1, T2, T3	\$6570 ^ø	\$6570 ^ø	6.5/7
Graduate Diploma of Virtual and Augmented Reality S679 ADMISSION REQUIREMENTS: A bachelor's degree in any discipline; or a graduate certificate in any discipline; or at least three years of relevant work experience (or part-time equivalent). Exit option is available at the graduate certificate (4 credit points) level.	B	1	T1, T2	\$26 280	\$31 592	6.5/6
Master of Information Systems M722 ADMISSION REQUIREMENTS: A bachelor's degree or other qualification at a higher AQF level in any discipline; or successful completion of Masters Qualifying Program (MQP) ^π (or MQP Extended).	C B	1.5–2	T1, T2, T3	\$26 400	\$31 600	6.5/6
Graduate Diploma of Information Systems M622 ADMISSION REQUIREMENTS: A bachelor's degree in any discipline; or a graduate certificate in any discipline; or at least three years of relevant work experience (or part-time equivalent); or successful completion of Masters Qualifying Program (MQP) ^π (or MQP Extended).	C B	1	T1, T2, T3	\$26 400	\$31 600	6.5/6
Graduate Certificate of Information Systems M522 ADMISSION REQUIREMENTS: A bachelor's degree in any discipline; or at least three years of relevant work experience (or part-time equivalent).	C B	0.5	T1, T2	\$13 200 ^ø	\$15 800 ^ø	6.5/6
Master of Business Analytics M761 ADMISSION REQUIREMENTS: A bachelor's degree or other qualification at a higher AQF level in any discipline; or successful completion of Masters Qualifying Program (MQP) ^π (or MQP Extended).	C B	1.5–2	T1, T2 , T3	\$26 400	\$31 600	6.5/6
Master of Commerce M755 ADMISSION REQUIREMENTS: A bachelor's degree or other qualification at a higher AQF level in any discipline; or successful completion of Masters Qualifying Program (MQP) ^π (or MQP Extended).	C B	1.5–2	T1, T2, T3	\$27 000	\$35 600	6.5/6

Information correct at July 2017. Deakin University reserves the right to alter, amend or delete course offerings and other information listed.

* A unit or subject is usually 1 credit point (CP). Fees quoted are based on an annual full-time study load (8 CP/1 FT), regardless of your unit selection. If the course duration is more than one year full-time study (1 FT), the annual fee does not represent the full cost of the course; it represents the cost of one year full-time study (8 CP) in 2018. Fee-Paying Place (FPP): 2018 annual course fees for FPPs are shown in the

2018 domestic full fee (8 CP) column. Fees displayed should be used as a guide only and are subject to change. Please visit deakin.edu.au/fees for the most up-to-date information. International fees are based on 8 CP in one year of full-time study, unless otherwise indicated.

[^] Most courses start in Trimester 1 (March to June). This column indicates whether you have the option of commencing your studies in Trimester 2 (July to October) or Trimester 3 (November to February). Not all units are offered in every trimester.

[#] Course lengths may vary in response to requirements within the Australian Qualifications Framework (AQF). Applicants should refer to the handbook for the latest information: deakin.edu.au/handbook.

[~] IELTS is the International English Language Testing System. 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).

^π International student applicants.

^ø Fee depicts 4 credit points.

[§] Trimester 3 intake is only offered on a part-time basis.

[≠] Plus \$4950 for 10 Professional Practice Credentials.

^ø Plus \$1485 for three Professional Practice Credentials.

Courses

Deakin code	S304	Cloud Campus	C
Course duration in years	3	Melbourne Burwood Campus	B
Trimester	T	Geelong Waterfront Campus	WF
		Geelong Waurrn Ponds Campus	WP
		Warrnambool Campus	WB

Master of Cyber Security S734 C 1.5-2 T1, T2

In an increasingly digital world, cyber attacks are an everyday occurrence. Expert cyber security professionals who can protect organisations from these threats are in high demand, and the Master of Cyber Security can prepare you for a successful career anywhere in the world.

This course gives you the cyber security skills that are crucial to the success of our digital future, focusing on a range of studies, from system security and digital forensics to analytics and organisational security.

Course structure

16 credit points including 14 core units and two elective units from a selected range of units offered by the School of Information Technology.

Core units

Advanced Digital Forensics
Advanced Topics in Digital Security
Communications Network Security
Computer Networks
Database and Information Retrieval*
IT Security Management
Object-Oriented Development*
Project Analysis and Design
Project Delivery
Research and Development in Information Technology
Security and Privacy Issues in Analytics
Software Design and Engineering*
Value of Information
Web Technologies and Development*

* Foundation units. Students entering this course with a relevant academic or professional background may be eligible for credit transfer and recognition for up to 4 credit points of study, potentially reducing the full-time study duration from two years to 1.5 years.

Elective units

This course provides the flexibility to choose 2 credit points of elective study from a selected range of units offered by the School of Information Technology.

Pathway options

Deakin also offers a Graduate Certificate of Cyber Security (4 credit points) and Graduate Diploma of Cyber Security (8 credit points), which can provide a postgraduate introduction to cyber security and entry pathway to the master's program, or an alternate exit option for those commencing the Master of Cyber Security who no longer wish to pursue a master's level qualification.

Master of Cyber Security (Professional)



The Master of Cyber Security (Professional) extends the specialised cyber security skills obtained in the Master of Cyber Security by providing students with the opportunity to undertake a period of industry-based learning or a research project under the supervision of our internationally recognised research staff.

Course structure

16 credit points including 10 core units, two elective units from a selected range of units, plus a further 4 credit points from a selected range of units offered by the School of Information Technology.

Core units

Advanced Digital Forensics
Advanced Topics in Digital Security
Communications Network Security
Computer Networks
IT Security Management
Project Analysis and Design
Project Delivery
Research and Development in Information Technology
Security and Privacy Issues in Analytics
Value of Information

Plus a further 4 credit points from the below list:

Major Thesis (4 credit points), or
Professional Practice (4 credit points)*, or
Minor Thesis (2 credit points), and
an additional 2 credit points of level 7 SIT elective units

* Students undertaking this unit must have successfully completed STP710 Introduction to Work Placements (0 credit point compulsory unit).

Elective units

This course provides students with the flexibility to choose 2 credit points of elective study from a selected range of units offered by the School of Information Technology.

Pathway options

Deakin also offers a Graduate Certificate of Cyber Security (4 credit points) and Graduate Diploma of Cyber Security (8 credit points), which can provide a postgraduate introduction to cyber security and entry pathway to the master's program, or an alternate exit option for those commencing the Master of Cyber Security who no longer wish to pursue a master's level qualification.



'Deakin IT students gain an edge in the job market through the combination of hands-on experience and high-level theoretical training that our courses provide. A cyber security project, for example, asked students to analyse a real-world case study of a hospital in Melbourne. Students were given an attack scenario and, using knowledge gained, demonstrated how they would provide protection against that attack successfully, without risking patient or staff safety and privacy.'

Nick Patterson
Information technology lecturer

Deakin Software and Technology Innovation Laboratory (DSTIL)

DSTIL provides innovative products, technologies and solutions for industry across all sectors. The Lab leverages Deakin's established research and development capability in cloud and mobile computing, software development, cyber-physical systems, security and analytics to deliver software and technology innovation in health, cyber security and defence, data tools and analytics, smart environments, food and agriculture, as well as many other areas. DSTIL uses rapid development environments that are client responsive and draws on knowledge and resources from the Industry Innovation Laboratory, the Centre for Regional and Rural Futures and other Deakin Strategic Research Centres.

Visit deakin.edu.au/information-technology/dstil.

Master of Data Analytics S777 C B 1.5-2 T1, T2, T3

This course provides opportunities to develop skills in statistical computing and programming, building capability in data processing and machine learning. In addition to these essential foundations, students are also exposed to cutting-edge techniques such as deep learning.

Course structure

16 credit points including 12 core units and four elective units from a selected range of units offered by the School of Information Technology.

Core units

Database and Information Retrieval*
Descriptive Analytics and Visualisation
Foundation Skills in Data Analytics*
Machine Learning
Modern Data Science
Multivariate and Categorical Data Analysis
Practical Machine Learning for Data Science
Predictive Analytics
Real World Analytics*
Security and Privacy Issues in Analytics
Statistical Data Analysis
Value of Information*

* Foundation units. Students entering this course with a relevant academic or professional background may be eligible for credit transfer and recognition for up to 4 credit points of study, potentially reducing the full-time study duration from two years to 1.5 years.

Elective units

Four elective units from a selected range of units offered by the School of Information Technology, which may include the following:

Major Thesis (4 credit points)
Minor Thesis and two course-grouped elective units
Professional Practice^ (4 credit points)

^ Students undertaking this unit must have successfully completed STP710 Introduction to Work Placements (0 credit point compulsory unit).

Pathway options

Deakin also offers a Graduate Diploma of Data Analytics (8 credit points), which can provide a postgraduate introduction to data analytics and entry pathway to the master's program, or an alternate exit option for those commencing the Master of Data Analytics who no longer wish to pursue a master's level qualification.



Courses

Deakin code	S304	Cloud Campus	C
Course duration in years	3	Melbourne Burwood Campus	B
Trimester	T	Geelong Waterfront Campus	WF
		Geelong Waurn Ponds Campus	WP
		Warrnambool Campus	WB

Join the most satisfied students in Victoria

For seven consecutive years, Deakin has achieved the highest level of overall student satisfaction among Victorian universities. These great results are from the responses to 'Overall Satisfaction' in the Australian Graduate Survey, 2010–2016.

Master of Information Technology



Deakin's postgraduate information technology courses provide a combination of leading-edge theory and technical knowledge with hands-on practical experience to prepare you for a successful career as an IT professional in Australia and around the world.

Continual consultation with industry ensures the courses are relevant and up to date with workplace demand and that our program is designed to meet future industry requirements.

Professional recognition

Australian Computer Society (ACS)



Course structure

12 credit points including four core units, one 4 credit point specialisation and four elective units from a selected range of units offered by the School of Information Technology

Core units

Software Engineering
Project Analysis and Design
Project Delivery
Research and Development in Information Technology

Elective units

This course provides students with the flexibility to choose 4 credit points of elective study from a selected range of units offered by the School of Information Technology.

Specialisations

You must complete at least one specialisation from the following options:

Cyber security
Data analytics
IT strategy and management
Networking
Software and Services
Virtual reality

Pathway options

Deakin also offers a Graduate Certificate of Information Technology (4 credit points) and Graduate Diploma of Information Technology (8 credit points), which can provide a postgraduate introduction to IT and entry pathway to the master's program, or an alternate exit option for those commencing the Master of Information Technology who no longer wish to pursue a master's level qualification.

Specialisation overview

The Master of Information Technology offers the flexibility to tailor your course to suit your own interests and career aspirations.

Cyber security

Cyber issues have attracted enormous attention, both in terms of everyday issues such as internet banking and internet 'scams', through to cyber terrorism and cyber warfare. This specialisation gives you the opportunity to explore your interests in information and network security, security management and digital forensics while developing the advanced skills required to manage and secure data, communications and infrastructure.

Data analytics

Develop technical skills in key areas of data analytics, such as data acquisition and modelling, data visualisation, and decision-support leading to business intelligence.

IT strategy and management

Understand the skills required to effectively drive business process improvement, manage IT services, develop IT strategies and manage innovation.

Networking

Plan, install and manage both local area networks and wide area networks, with a strong focus on network design, routing protocols and switching concepts. The specialisation incorporates the Cisco CCNA curriculum, which prepares students for the CCNA industry certification. There is a strong focus on application development for networked systems and supporting user mobility from both application and network perspectives.

Software and services

Designed in consultation with industry leaders, this specialisation has a strong focus on the development of mobile and web services, which are driven by a range of enterprise-level technologies, including web applications, service-oriented architecture and software quality assurance. There is an emphasis on methodologies, tools, techniques and management principles for developing real-world solutions.

Virtual reality

Explore immersive digital environments that can replicate life-like physical spaces or portray a fictional artificial world. Learn how virtual reality allows you to interact with various environments, and can create sensory experiences, including virtual touch through haptic technology, sight, smell, taste and sound.



deakin.edu.au/information-technology



Master of Information Technology (Professional)



The Master of Information Technology (Professional) is designed to extend the specialised information technology skills obtained in the Master of Information Technology by providing students with the opportunity to undertake a trimester of industry-based learning or a trimester-long research project under the supervision of our internationally recognised research staff.

Professional recognition

Australian Computer Society (ACS)



Course structure

The Master of Information Technology (Professional) comprises 16 credit points of study, including all the requirements for the 12 credit point Master of Information Technology (see page 6), plus an additional 4 credit points from the options outlined below.

- Major thesis (4 credit points), or
- Professional practice* (4 credit points), or
- Virtual reality professional practice*^ (4 credit points), or
- Minor thesis (2 credit points) and 2 credit points of elective study chosen from a selected range of units offered by the School of Information Technology.

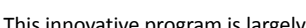
* Students undertaking this unit must have successfully completed STP710 Introduction to Work Placements (0 credit point compulsory unit).

^ This unit is only available to students undertaking the virtual reality specialisation.

Pathway options

Deakin also offers a Graduate Certificate of Information Technology (4 credit points), and a Graduate Diploma of Information Technology (8 credit points), which can provide a postgraduate introduction to IT and entry pathway to the master's program, or an alternate exit option for those commencing the Master of Information Technology (Professional) who no longer wish to pursue a master's level qualification.

Master of Professional Practice (Information Technology)



This innovative program is largely based on recognition of professional practice and is ideally suited to IT professionals with extensive domain experience.

The model offers employers and professionals an alternative to traditional higher education that is credible, validated and provides new ways to match capability and opportunity. The program supports professionals to reach their full potential by accelerating the completion of the program on the basis of prior learning and work experience.

Completion of this degree recognises the discipline-based knowledge and skills developed by professionals in the workplace and is credentialled through DeakinDigital (a wholly owned subsidiary of Deakin University). As part of the process you provide evidence of your capabilities and are then interviewed by an expert panel from your industry.

Course structure

Students must successfully complete three units (4 credit points) of formal study and 10 Professional Practice credentials. Each Professional Practice credential assesses the performance at master's (advanced) level in one of the Deakin Graduate Learning Outcomes, as related to information technology.

Pathway options

Deakin also offers a Graduate Certificate of Professional Practice (Information Technology; 4 credit points), which is ideally suited to experienced IT professionals with domain experience seeking career advancement and entry pathway to the master's program, or provides an alternate exit option at either the graduate certificate or graduate diploma level for those commencing the Master of Professional Practice (Information Technology) who no longer wish to pursue a master's level qualification.

Courses

Deakin code	S304	Cloud Campus	C
Course duration in years	3	Melbourne Burwood Campus	B
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Graduate Diploma of Virtual and Augmented Reality

The first course of its kind in Australia, the Graduate Diploma of Virtual and Augmented Reality allows you to specialise in this cutting-edge field and learn how to replicate life-like spaces, portray fictional worlds and enhance real-life environments with a digital overlay. A rapidly developing area that’s been identified as the next big thing in computing, virtual and augmented reality technology is currently being integrated into industries such as health care, tourism, advertising, entertainment, automotive, gaming, education and space.

This course is delivered with our industry partner EON Reality, a leader in scalable virtual reality and augmented reality. Through this partnership you will benefit from industry expertise and professional contacts, while accessing the latest equipment and technology.

Course structure

8 credit points including four core units and one 4 credit point work placement unit offered by the School of Information Technology.

Core units

- Content Creation for Virtual Reality
- Development for Virtual Reality
- Interaction and Design for Virtual Reality and Augmented Reality
- Introduction to Work Placement (0 credit points)
- Virtual Reality on Mobile Platforms

Placement unit

Virtual Reality Professional Practice (4 credit points)#

Students must have successfully completed STP710 Introduction to Work Placements (0 credit point compulsory unit).

Exit option

Deakin also offers a Graduate Certificate of Virtual and Augmented Reality as an alternative exit option after the completion of four core coursework units.

Master of Information Systems

New technologies and the accumulation of data have made information systems a key driver in business. Accredited by the Australian Computer Society (ACS), this course has been developed to address the demand for specialists who understand the strategic use of information in the business context.

The course provides specialist skills in business-oriented principles and practices of information systems. It focuses on the strategic use of information in a business and policy context, supported by a sound technical understanding and capability in specific areas of information systems via a specialisation in business analytics.

Pathways

- Graduate Certificate of Information Systems
- Graduate Diploma of Information Systems

IT-related specialisation

Business analytics

The study area introduces students to a range of internationally recognised business intelligence and analytics tools and has a very strong practical focus. Big data concepts and issues are integrated across the curriculum and you have access to a wide range of state-of-the-art business analytics software tools, such as IBM Cognos, SAS Enterprise Miner and Tableau. You also have direct access to analytics certification programs offered by IBM, Microsoft and SAS.

Professional recognition

Australian Computer Society (ACS)



Course structure

16 credit points including 11 core units and five elective units.

Core units

- Academic Induction for Postgraduate Information Systems (0 credit points)
- Analysing the Impact of Digital Business
- Business Intelligence
- Business Process Management
- Business Requirements Analysis
- eBusiness Strategies
- Enterprise Information Management
- Foundation Skills in Data Analysis
- Information Systems in Practice
- Project Management
- Supply Chain Management and Logistics
- Value of Information

Elective units

Choose 5 credit points of general postgraduate elective units. Electives may be used to complete any 4 credit point specialisation offered by the University, subject to meeting eligibility requirements.

Master of Business Analytics

The first course in Australia accredited by the Australian Computer Society (ASC), this program is offered in collaboration with industry and a significant part of it is taught by on-the-ground, industry professionals. It introduces a range of internationally recognised business intelligence and analytics tools and provides you with the skills for the thriving business analytics profession. With a strong practical focus, you will have access to analytics certification programs by market leaders IBM, SAS and Microsoft.

Pathway

- Graduate Diploma of Business Analytics

Course structure

16 credit points including 12 core units and four elective units.

Core units

- Business Intelligence
- Database and Information Retrieval
- Decision Analytics in Practice
- Decision Modelling for Business Analytics
- Descriptive Analytics and Visualisation
- Foundation Skills in Data Analysis
- Machine Learning
- Marketing Analytics
- Predictive Analytics
- Real World Analytics
- Security and Privacy Issues in Analytics
- Value of Information

Elective units

For information on elective units, visit deakin.edu.au/course/master-business-analytics.

deakin.edu.au/business/information-systems-business-analytics



Master of Commerce

This degree is for those looking for their first qualification in business with a specialisation in business analytics, information systems or eBusiness and social media strategies. By choosing appropriate units you may also satisfy the professional recognition requirements of the Australian Computer Society (ACS).

Related specialisations

- Business analytics
- Information systems
- eBusiness and social media strategies

Course structure

For information on core units, specialisations and elective units, visit deakin.edu.au/course/master-commerce.



Interactive Digital Centre (IDC) Hub

Deakin’s IDC Hub, developed in collaboration with US-based EON Reality, houses state-of-the-art virtual reality (VR) and augmented reality (AR) technologies. As a Deakin IT student enrolled in our VR course offerings, you will learn the skills needed to enter this leading-edge industry through accessing innovative technology and research, developing VR and AR applications and content, and completing industry work placements with EON Reality and their industry partners.



	Campus	Course duration in years [#]	Trimester intake options [^]	2018 domestic full fee (8 CP)*	2017 domestic indicative CSP fee*	2018 international fee*	IELTS~
Research degrees							
Bachelor of Information Technology (Honours) \$470	<div><div>B</div><div>WP</div></div>	1	T1, T2	–	\$9050	\$26 000	6/6
Master of Science \$813	<div><div>C</div><div>B</div><div>WP</div></div>	1–2	–	–	–	\$34 152	6.5/6
Doctor of Philosophy \$913	<div><div>C</div><div>B</div><div>WP</div></div>	3–4	–	–	–	\$34 152	6.5/6

Information correct at July 2017. Deakin University reserves the right to alter, amend or delete course offerings and other information listed.

* If you’re a successful applicant for research degree candidature, and you’re an Australian citizen, permanent resident or New Zealand citizen, you won’t pay any tuition fees. Commonwealth Supported Place (CSP): The CSP rates shown in the CSP column are indicative 2017 annual course fees. CSP fees are indicative because they are calculated based on your unit selection. Fees displayed should be used as a guide only and are subject to change. International fees are based on 8 CP in one year of full-time study, unless otherwise indicated. Please visit [deakin.edu.au/fees](#) for the most up-to-date information.

[^] Most courses start in Trimester 1 (March to June). This column indicates whether you have the option of commencing your studies in Trimester 2 (July to October) or Trimester 3 (November to February). Not all units are offered in every trimester.

[#] Course lengths may vary in response to requirements within the Australian Qualifications Framework. Applicants should refer to the handbook for the latest information: [deakin.edu.au/handbook](#).

[~] IELTS is the International English Language Testing System. 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).

‘Information technology is changing the ways in which we communicate, exercise and stay healthy. It affects how we form relationships, how we learn and how we do business.’

Professor John Yearwood
Head of School, Information Technology



HDR applications now open

Applications for research degrees without scholarship may be made at any time. Commencement of research degrees is not confined to Deakin’s trimesters.

Boost for cyber security collaboration

Professor Yang Xiang, director of Deakin’s Centre for Cyber Security Research, has been named a Changjiang Scholar, one of only 52 academics from around the world to receive the accolade this year.

The Changjiang Scholar Award is the highest academic award issued to an individual by the Chinese Ministry of Education and is conferred based on the awardee’s research contributions to global innovation.

Professor Xiang will receive a professorship from Xidian University, one of China’s top universities with a focus on research in science innovation, electronics and information technology.

‘Xidian University has strong capabilities in different sub-areas of cyber security,’ Prof Xiang says. ‘I hope to work with them on projects that will be beneficial to Deakin and to Australia, such as data-driven cyber security, physical system security and large-scale attacks detection.’

Deakin is among the world’s top 101–150 universities for Computer Science, according to the 2015 Academic Ranking of World Universities, with the University’s cyber security research a key factor in the ranking.

Research snapshot

We provide world-class research opportunities and the best in research training for students. Our research groups in artificial intelligence and data analytics (AIDA), distributed systems and security (DSS), information technology for future education (ITFE), internet of things (IoT), software engineering (SE), Centre for Cyber Security Research (CCSR), Pattern Recognition and Data Analytics (PRaDA), Institute for Intelligent Systems, Research and Innovation (IISRI) and Deakin Software and Technology Innovation Laboratory (DSTIL) help advance industry and give our graduates a competitive edge.

For example, an innovative data-mining initiative is currently being introduced across 10 hospital branches in India. This research project involves using data to identify critical safety issues and improve efficiencies.

Deakin and the Garvan Institute of Medical Research have joined forces to accelerate precision medicine through machine learning and artificial intelligence, with the potential to tailor medical treatment to an individual’s genes, environment and lifestyles – and improve prevention and diagnosis of disease using genome sequencing.

Our software engineers have created an immersive experience to build empathy for carers of people with dementia, helping develop a better understanding of how people with the disease experience the world.

Be it robotics, pioneering research in big data or developing high-tech aerospace-grade carbon fibre composites, our researchers are dedicating their know-how to solving 21st century problems through cutting-edge, smart technologies.

To find out more about research opportunities relating to IT, visit [deakin.edu.au/research/designing-smarter-technologies](#).

Hear what our researchers have to say about research in the School of Information Technology.

[deakin.yt/itres](#)



'The School of IT has a strong, active industry advisory board, helping us ensure our curriculum is as up to date as possible. I have strong links with colleagues in industry who I invite to give guest lectures and provide input to the curriculum and unit delivery, keeping the learning relevant to today's workplace.'

Associate Professor Jo Coldwell-Neilson
Information technology senior academic



Your digital learning tools

DeakinSync is a digital study hub giving Deakin students and staff 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 deakin.edu.au/life-at-deakin/why-study-at-deakin/ibm-watson for more information.

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Gain industry experience

Professional experience plays a critical role in enhancing your employability, and students undertaking work-integrated learning and internship experiences as part of their postgraduate study are highly sought-after by employers. IT students have the opportunity to enrol in a trimester of industry-based learning, enabling you to experience a professional work environment, develop professional networks and explore career opportunities before you graduate, while gaining credit towards your degree.

Centre for Cyber Security Research (CSSR)

CSSR engages with industry and government through collaborative research projects, in order to provide protection from major cyber security threats facing Australia and the world. Through its research and outreach activities, CSSR models and informs cyber security policy development for government and business as well as raising cyber safety awareness levels in the community. This field is a key priority for the Federal Government, as the security of personal information, cyber terrorism and financial cyber security become some of the most important global issues we face. Find out more at deakin.edu.au/ccsr.



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