

Postgraduate cyber security



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UNIVERSITY

deakin.edu.au

Postgraduate cyber security

Ready to take on an expert security role within business, government or law enforcement? Advance your career with the specialised skills to investigate and combat cybercrime. Our courses are relevant and industry-specific to ensure you graduate job-ready with the skills employers value.

Why study at Deakin University?

Industry informed teaching

You will be taught by expert academics who conduct top-tier international research in cyber security. Courses are regularly reviewed and updated with industry input to ensure the curriculum is up-to-date and reflects workplace needs and industry best practice. You will have opportunities to learn from professional industry guest lecturers, to participate in industry-linked research and to practice your analytics skills during an industry placement.

Professionally accredited

The Master of Cyber Security is professionally accredited as a specialist cyber security course with the Australian Computer Society (ACS).

Deakin is only one of two universities in Australia to offer postgraduate courses with this certification.



Strong research links

Students in Deakin's cyber security courses have the unique and valuable opportunity to learn from Deakin's Centre for Cyber Security Research and Innovation (CSRI) world class researchers and cyber security specialists; and be exposed to cutting edge research and development and cyber security innovations.

Flexible online study available

Learn at your convenience by studying our cyber security courses online. Our online learning and content is designed to be collaborative and engaging, and is taught by the same teachers as on-campus study.



Victoria's #1 university for educational experience ¹



#1 university career service in Australia ²



Top 1% of universities worldwide ³



Victoria's #1 university for teaching quality ⁴



Victoria's #1 university for student support ⁵



Connect with 60,000+ students online

¹ 2020 Student Experience Survey, based on undergraduate students, UA benchmark group Victorian universities.

² Australian Graduate Recruitment Industry Awards 2017–2020, winner for most popular career service in Australia.

³ ARWU Rankings 2022

⁴ 2020 Student Experience Survey, UA benchmark group Victorian universities.

⁵ 2020 Student Experience Survey, UA benchmark group Victorian universities.

► Study no matter your background

You don't need an IT background to study postgraduate cyber security at Deakin. We offer tailored degrees that enable you to kick start your career in this exciting field.

Progress your career

Whether you're looking to fill a knowledge gap in your current role, develop a specific set of skills to boost your immediate job prospects, or gradually strengthen your expertise to secure your long-term employability, studying a graduate certificate is an affordable and accessible way to achieve your career goals.



Graduate Certificate of Cyber Security

In today's digital world – where technology is pivotal to business, government and daily life – cyber security threats are a major challenge across many industry sectors. And as cyber-attacks are becoming everyday occurrences, cyber security professionals are in increasing demand globally.

Through the Graduate Certificate of Cyber Security, you will learn how to identify, diagnose and manage the challenges of cyber security threats, and graduate ready for a successful cyber security career anywhere in the world.

Focusing on a range of key industry-relevant areas, you will develop knowledge and expertise about system security and digital forensics, analytics and organisational security.

Course information

Course code: S535

Campus: Waurin Ponds (Geelong), Online

Duration: 0.5 years full-time study or part-time equivalent

Intake: March (Trimester 1), July (Trimester 2) and November (Trimester 3)*

*Trimester 3 only available Online and for part-time study

Course structure

To complete the Graduate Certificate of Cyber Security, students must attain 4 credit points (cp) (one year of part-time study), which includes the following:

► Core units

Identity, Access Management and Physical Security (1cp)
Analytics for Security and Privacy (1cp)
Cyber Security Management (1cp)
Computer Networks and Security (1cp)
Academic Integrity (0cp compulsory unit)

Entry pathways

Upon completion of the Graduate Certificate of Cyber Security you could use the credit points you've earned to enter into further study. Those interested in pursuing further study in this field are encouraged to consider the Master of Cyber Security.

► Deakin alumni discount

If you're a Deakin alumnus commencing a postgraduate award course, you may be eligible to receive a 10% reduction per unit on your enrolment fees.

For more information, visit deakin.edu.au/alumni-discount.

A postgraduate qualification can be undertaken by students who have already completed an undergraduate degree or possess significant, demonstrable work experience. Postgraduate courses include graduate certificates, graduate diplomas, and master's degrees, as well as specialist programs for industry professionals.



Career opportunities

Deakin's Graduate Certificate of Cyber Security prepares students for professional employment across all sectors as cyber security specialists. Graduates may find employment as:

- Security analysts,
- Project managers,
- Security system managers,
- Security consultants,
- Security system developers,
- IT security engineers and more.

Interested in applying?

Entry requirements

Entry will be based on performance in:

- Bachelor degree in a related discipline, **OR**
- Bachelor degree in any discipline and two years related work experience, **OR**
- Graduate Certificate of Information Technology or equivalent, **OR**
- Evidence of academic capability judged to be equivalent.

How to apply

Applications can be made online via deakin.edu.au/direct-applications.

For more information about entry requirements, submitting an application or the application process, please visit deakin.edu.au/courses/how-to-apply.

► Recognition of Prior Learning

We value your experience and qualifications. That's why every new course application at Deakin is automatically assessed for recognition of prior learning (RPL). RPL turns your study and life experience into course credit – credit that can reduce your study duration, as well as the cost of your tuition.

For more information visit: deakin.edu.au/study/how-to-apply/recognition-of-prior-learning

- For more information about this course, including further course structure and units details, visit deakin.edu.au/course/graduate-certificate-cyber-security.





Master of Cyber Security

In an increasingly digital world, cyber attacks are an everyday occurrence. As a result, cyber security professionals are in high demand around the world to protect organisations in all sectors from increasingly sophisticated cyber threats. Deakin's Master of Cyber Security equips you with the specialised skills to investigate and combat cyber crime, and prepares you for a successful career in cyber security anywhere in the world.

Throughout the Master of Cyber Security, you will learn how to detect, analyse and confront cyber security challenges. You'll focus on a range of studies, and gain knowledge about system security and digital forensics, analytics, organisational security and human aspects of cyber security. This vital experience prepares you to counter the number one criminal threat to modern-day society.

Course information

Course code: S734

Campus: Waurin Ponds (Geelong), Online

Duration: 1-2 years full-time study, or part-time equivalent

Intake: March (Trimester 1), July (Trimester 2) and November (Trimester 3)

Course structure

To complete the Master of Cyber Security, you must attain 8, 12 or 16 credit points, depending on your prior experience. Typically, full-time students choose to study 4 units per trimester and usually undertake two trimesters each year.

The course is structured in three parts which comprise the following number of credit points (cp):

$$\begin{array}{ccccccc}
 \textcircled{4\text{cp}} & + & \textcircled{8\text{cp}} & + & \textcircled{4\text{cp}} & = & \textcircled{16\text{cp}} \\
 \text{Part A} & & \text{Part B} & & \text{Part C} & & \text{Total}
 \end{array}$$

Depending upon prior qualifications and/or experience, you may receive credit for Part A and Part B.

► Part A – Foundation Information Technology Studies

Object-Oriented Development (1cp)

Database Fundamentals (1cp)

Software Requirements Analysis and Modelling (1cp)

Web Technologies and Development (1cp)

► Part B – Mastery Cyber Security Studies

Identity, Access Management and Physical Security (1cp)

Analytics for Security and Privacy (1cp)

Cyber Security Management (1cp)

Computer Networks and Security (1cp)

Application and Communication Protocol Security (1cp)

Computer Forensics and Investigations (1cp)

Ethical Hacking (1cp)

Secure Coding (1cp)

► Part C – Cyber Security Capstone Units

Team Project (A) – Project Management and Practices* (1cp)

Team Project (B) – Execution and Delivery* (1cp)

Professional Practice in Information Technology (1cp)

One level 7 SIT elective (1cp)

Academic Integrity (0cp compulsory unit)

*Students are expected to undertake these units in consecutive trimesters.

► For more information about this course, including further course structure and units details, visit deakin.edu.au/course/master-cyber-security.

Professional industry experience

As a student enrolled in the Master of Cyber Security you'll complete two capstone units (Part C) which provide you with the opportunity to engage in a real-world, industry-relevant IT project. These units involve working on designing, implementing, managing and delivering a collaborative team project allowing you to demonstrate the knowledge and skills you have gained across your studies.

You can also choose to undertake an industry placement or internship as part of your degree as your elective unit option. Benefit from 120 - 480 hours of professional experience whilst receiving credit towards your degree.

Career opportunities

Cyber security professionals with solid knowledge in computer networks and strong skills in the security of today's data-rich ecosystem are in high demand.

You'll graduate ready for a variety of security roles within business, government and law enforcement, including:

- Risk analyst,
- Information security specialist,
- Security systems manager,
- Security consultant,
- Information security auditor, or
- Security manager.

And with experience, you might take on roles such as chief security officer.

► Explore our IT facilities

Considering studying on campus? Then explore the IT facilities at our Melbourne Burwood Campus.

deakin.yt/it-facilities

Interested in applying?

Entry requirements

You may be eligible to undertake the Master of Cyber Security over a shorter duration depending on your academic and professional background.

Depending on your prior experience, your course will be:

► 2 years full-time (4 years part-time)

Your admission for the 16 credit point Master of Cyber Security will be based on performance in:

- Bachelor's degree or other qualification at a higher AQF level in any discipline, **OR**
- Evidence of academic capability judged to be equivalent.

► 1.5 years full-time (3 years part-time)

Your admission for the 12 credit point Master of Cyber Security will be based on performance in:

- Bachelor's degree in a related discipline, **OR**
- Bachelor's degree in any discipline and two years relevant work experience, **OR**
- Graduate Certificate or Graduate Diploma in a related discipline, **OR**
- Evidence of academic capability judged to be equivalent.

► 1 year full-time (2 years part-time)

Your admission for the 8 credit point Master of Cyber Security will be based on performance in:

- Bachelor's Honours (AQF8) degree in a related discipline, **OR**
- Bachelor's degree in a related discipline and two years relevant work experience, **OR**
- Graduate Certificate or Graduate Diploma in the same discipline, **OR**
- Evidence of academic capability judged to be equivalent.

The 1 year full-time (8cp) version is only available as a part-time commencement in Trimester 3.

How to apply

Applications can be made online via **deakin.edu.au/direct-applications**.

For more information about entry requirements, submitting an application or the application process, please visit **deakin.edu.au/courses/how-to-apply**.





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 you with opportunities to gain practical experience. You can choose to undertake a period of industry-based learning or a research project under the supervision of our internationally recognised research staff.

You will explore system security, digital forensics and analytics through to organisational security, governance and policy skills. Vital hands-on experience ensures that you will gain the skills required to confidently investigate and combat cyber-crime and cyberterrorism.

Course information

Course code: S735

Campus: Waurm Ponds (Geelong), Online

Duration: 2 years full-time study or part-time equivalent

Intake: March (Trimester 1), July (Trimester 2), November (Trimester 3)

Course structure

To complete the Master of Cyber Security (Professional), students must attain 16 credit points. Typically, full-time students choose to study 4 units per trimester and usually undertake two trimesters each year.

The course is structured in three parts which comprise the following number of credit points (cp):

$$\begin{array}{ccccccc}
 \textcircled{8\text{cp}} & + & \textcircled{4\text{cp}} & + & \textcircled{4\text{cp}} & = & \textcircled{16\text{cp}} \\
 \text{Part A} & & \text{Part B} & & \text{Part C} & & \text{Total}
 \end{array}$$

► For more information about this course, including further course structure and units details, visit deakin.edu.au/course/master-cyber-security-professional.

► Part A – Mastery Cyber Security Studies

Identity, Access Management and Physical Security (1cp)

Analytics for Security and Privacy (1cp)

Application and Communication Protocol Security (1cp)

Computer Forensics and Investigations (1cp)

Ethical Hacking (1cp)

Cyber Security Management (1cp)

Computer Networks and Security (1cp)

Secure Coding (1cp)

► Part B – Electives

Four electives (level 7 SIT-coded units) (4cp)

► Part C – Professional Studies

Professional Practice in Information Technology (1cp)

Team Project (A) – Project Management and Practices* (1cp)

Team Project (B) – Execution and Delivery (1cp)

One level 7 SIT elective (1cp)

OR

Career Tools for Employability (0cp)

Professional Practice in Information Technology (1cp)

Professional Practice* (2cp)

One level 7 SIT elective (1cp)

OR

Research Training and Project (2cp)

Research Project (Advanced) (2cp)*

OR

Professional Practice in Information Technology (1cp)

Research Training and Project (2cp)

One level 7 SIT elective (1cp)

Academic Integrity (0cp compulsory unit)

Professional studies

Gain a competitive edge in the workplace with real-world expertise and practical skills by undertaking one of the following industry-based learning experiences or a research project.

Team projects

The postgraduate capstone units are designed to give you the opportunity to experiment and undertake real-world, industry-relevant IT projects as part of a collaborative team. Increase your understanding and experience of the product development environment by contributing and managing IT projects within a defined scope and schedule.

Professional practice

Get practical experience and hands-on learning by completing a placement as part of the Professional Practice unit. You will gain approximately 150 hours of professional work experience with an approved organisation.

Research projects

Research and development skills and abilities are in-demand in the IT industry. Embark on a research project and develop skills and abilities for informed evidence-based practice that will help further your career.

Career opportunities

You'll graduate ready for a variety of security roles within business, government and law enforcement. Examples include:

- Risk analyst,
- Information security specialist,
- Security system developer or programmer,
- Cyber security consultant,
- Security systems manager,
- Security consultant,
- Information security auditor, or
- Security manager.

And with experience, you might take on roles such as chief security officer.

► Gain additional industry certifications

Our Master of Cyber Security or the Master of Cyber Security (Professional) courses automatically prepare you for numerous industry leading certifications. Depending on the units undertaken, you are provided the opportunity to sit the Ethical Hacking and Digital Forensics certification exams.

Furthermore, the course content closely aligns with the Certified Information Systems Security Professional (CISSP) curriculum. This means that upon successful completion of either of these courses, you are well placed to undertake some additional study to gain CISSP certification from the International Information System Security Certification Consortium (ISC)2, the world's leading cyber security professional organisation.

Interested in applying?

Entry requirements

- Bachelor degree in a related discipline, **OR**
- Bachelor degree in any discipline and two years relevant work experience, **OR**
- Graduate Certificate of Information Technology or equivalent, **OR**
- Evidence of academic capability judged to be equivalent.

How to apply

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► Australia's #1 university career service*

Our award-winning career service – DeakinTalent – prepares you for the jobs of tomorrow. You'll have lifetime access to career coaching, industry networking opportunities and a comprehensive suite of digital resources.

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Prospective student enquiries

Domestic students

1800 693 888

deakin.edu.au/help-hub

International students

+61 3 9627 4877

study@deakin.edu.au

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While the information provided here was correct at the time of publication, Deakin University reserves the right to alter, amend or delete details of the course and unit offerings. Published March 2023.