



**UNSW**  
CANBERRA

# Postgraduate Student Guide

—  
**2023**



[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

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## **Student profile** **Liam Langford**

### Doctorate in Public Management

The aim of my thesis is to develop a leadership capability framework for frontline ambulance service leaders and managers. By doing so, I hope it will aid the identification, development, education and performance of frontline ambulance service leaders, with the flow-on effect to improve staff, patient and community outcomes.

## **We would like to acknowledge**

*Bedegal (Kensington campus), Gadigal (City and College of Fine Arts campuses) and the Ngunnawal people (Canberra City and Australian Defence Force Academy in Canberra) who are the traditional custodians of the lands where each campus of the University is located.*

# Extended learning at a world Top 50 university.



## Online degrees

UNSW Canberra offers flexible online masters degrees.



## One-year full-time study

UNSW Canberra offers you everything you need and nothing you don't. Upskill faster and implement sooner.



## Top 50

UNSW ranks 43rd in the 2022 QS World University Rankings.



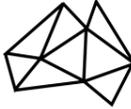
## Best teacher-to-student ratio

UNSW Canberra provides the best teacher-to-student ratio in Australia.



## Educating future leaders

UNSW has been educating leaders in defence, government and industry in Canberra for more than 50 years.



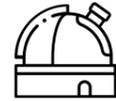
## A Group of Eight university

UNSW is a member of the prestigious coalition of Australia's leading research-intensive universities.



## Research excellence

UNSW has more top ratings in broad fields of research excellence and impact than any other Australian university.



## Purpose-built facilities

UNSW Canberra has purpose-built workshops and facilities.

# Who can study with UNSW Canberra?

While most of our students are Defence members looking to upskill, we welcome all types of learners, including partners of Defence personnel, civilians working in the defence industry, and those with no Defence affiliation at all.

## Defence students

As the primary education provider for the Australian Defence Force (ADF), we've developed a suite of masters by coursework and research programs specifically designed for Defence needs. If you're an ADF member, you can apply for Defence funding to support your UNSW Canberra study costs. For information about Defence Funding for postgraduate study at UNSW Canberra, contact Defence Education Assist [drnet.defence.gov.au/People/Learning-and-Development/Pages/ADFA-PG.aspx](https://drnet.defence.gov.au/People/Learning-and-Development/Pages/ADFA-PG.aspx)

## Non-Defence students

### Domestic

If you're working in business, industry or government in Australia but don't have any connection to the defence industry, you can still study with us. Join our rapidly growing cohort of non-Defence professionals and take your career to the next level.

### International

At UNSW Canberra, we welcome applications from international students for our masters by coursework programs, which are taken either fully or partially online. International students are also a vital component of our postgraduate research cohort, hailing from more than 45 countries across the globe.



## Program options.

Whether you're looking to progress a postgraduate masters by coursework or maximise your commitment with a postgraduate research program, UNSW Canberra's varied range of discipline areas and research strengths will be sure to pique your interest. Program structures, course content, admissions requirements and tuition fees will depend on your chosen degree, but whichever pathway you take, you can rely on our academic expertise to help you meet your academic and career goals.

Program	Years (full-time duration)	Intake	Mode	Classification
Masters Degree	1	S1 & S2	Fully Online, Online & IDM	Coursework
Master of Philosophy	1.5 - 2	T1, T2 & T3	Campus	Research
Masters by Research	1.5 - 2	T1, T2 & T3	Campus	Research
Professional Doctorate	3 - 4	T1, T2 & T3	Campus	Research
Doctor of Philosophy	3 - 4	T1, T2 & T3	Campus	Research

## Flexible learning to suit your life.

Whether you're a serving member of the Australian Defence Force (ADF), currently working in a Defence environment or simply looking to broaden your skills, we know you lead a busy life. So it's important to have a postgraduate partner that provides flexibility.

At UNSW Canberra, we offer postgraduate coursework programs across several adaptable delivery modes – from wholly online options, to Intensive Delivery Mode (IDM) courses which mix online studies with one week of full-time in-person classes at UNSW Canberra.

Our programs are especially designed so serving ADF personnel and Department of Defence public servants can study while working full time, regardless of where in Australia or overseas you may be.

Our flexible course durations suit your personal circumstances, too, with a choice of 18 postgraduate masters by coursework degrees that can be studied either as one-year full-time or two-year part-time programs.

Spanning both traditional 'Defence' discipline areas – like those that Australian Defence Force Academy students have studied for more than 50 years – as well as pioneering business and management degrees, our focus is on shaping the next generation of leaders across government, industry and defence.

While offshore international students aren't eligible for Australian student visas, it's possible to study our masters courses in Intensive Delivery Mode on an Australian visitor visa.

If postgraduate research is where your interests lie, our schools cover an impressive number of research strengths across engineering, IT, humanities and social sciences, business and science. Choose from two masters-level and two doctorate programs, covering 1.5 to four years of full-time commitment, with part-time options also available.

# Postgraduate coursework.

Our postgraduate coursework programs provide you with a thorough understanding of the knowledge and skills necessary to master your chosen discipline. The major component of the program is participation in semester-long courses, which can be taken at UNSW Canberra either fully online, or through Intensive Delivery Mode (IDM) – one week of full-time, face-to-face classes at the UNSW Canberra campus, followed by online studies. For assessment, you'll usually be required to submit essays and assignments. Some UNSW Canberra postgraduate coursework programs allow you to undertake a research project – if you achieve an appropriate grade point average, you can nominate to work on a substantial piece of study under the guidance of a supervisor.



## **Student profile**

### **John Bale**

Master of Management Studies in  
Project Management and  
Master of Arts in Strategy and Policy

John is co-founder of Soldier On and Fortem Australia.

# Why study postgraduate coursework at UNSW Canberra?

## Online study

We know you're balancing study with work, your family and other important parts of your life, which is why we've created online, flexible masters degrees and those delivered through Intensive Delivery Mode (IDM). At UNSW Canberra, you can study anywhere, anytime.

## One-year full-time study

A UNSW Canberra masters degree allows you to draw on the knowledge of the University ranked 43rd in the world, learn skills for the modern workplace and leverage our experience to take your career to the next level. Our efficient one-year degrees provide you with everything you need and nothing you don't so you can get out of the classroom and into your next job role faster than ever before.

## Networking opportunities

When you study with us, you'll connect with leaders across a range of professional fields. You'll also benefit from excellent networking opportunities with fellow students across Defence, industry, government organisations and commercial businesses.

## Am I eligible?

To gain entry into a UNSW Canberra masters by coursework program, you must meet one of the following entry requirements:

1. Completion of a bachelors degree with honours in the same or a related discipline\* from a recognised institution.
2. Completion of a graduate diploma in the same or a related discipline\* from a recognised institution.
3. Completion of a bachelors degree in the same or a related discipline\* from a recognised institution and completion of at least three years' relevant full-time professional experience.
4. Completion of a bachelors degree in a non-related discipline and completion of at least four years' relevant full-time professional experience.
5. Evidence of your qualifications and professional experience will be assessed as acceptable grounds for admission into the program by the relevant program authority. In certain circumstances, you may be required to undertake and successfully complete a relevant non-award course as a condition for admission into the program. This non-award course may also be credited towards the program upon admission.

Masters Programs	Related Disciplines*
Business (8388)	Business, Management, Economics, Accounting, Information Technology, Information Systems, Engineering, Human Resource Management, Project Management, Public Policy, Marketing Management, Law
Capability Management (8399)	Management
Cyber Security (8628): • Advanced Tradecraft • Digital Forensics	Information Technology, Information Systems, Science, Computer Science, Engineering
Cyber Security Operations (8629)	Business, Management
Cyber Security, Strategy and Diplomacy (8631)	Humanities and Social Sciences, Management
Decision Analytics (8634)	Engineering, Business, Management, Mathematical Sciences, Information Technology
Logistics Management (8564)	Business, Management, Economics, Accounting, Information Technology, Engineering, Human Resource Management, Project Management, Supply Chain Management, Law
Project Management (8595)	Management
Security and Defence Management (8573)	Humanities and Social Sciences, Management, Business
Space Engineering (8622)	Engineering
Space Operations (8624)	Management, Engineering, Humanities and Social Sciences
Special Operations and Irregular Warfare (8632)	Humanities and Social Sciences
Strategic People Management (8563)	Business, Management, Economics, Accounting, Information Technology, Engineering, Human Resource Management, Project Management, Law
Strategy and Security (8572)	Humanities and Social Sciences
Sustainment Management (8566)	Project Management, Logistics, Business
Systems Engineering (8567)	Management
War Studies (8574)	Humanities and Social Sciences
Workforce Planning (8561)	Business, Management, Economics, Accounting, Information Technology, Information Systems, Engineering, Human Resource Management, Project Management, Public Policy, Marketing Management, Law

## Student profile

### James Easton

#### Master of Special Operations and Master of War Studies

James Easton already has one UNSW Canberra postgraduate qualification under his belt and he's now working towards his second and third.

James is an Australian Army Officer currently posted in the US, but distance hasn't stopped him from studying at UNSW Canberra thanks to the University's flexible online degrees.

"Online learning doesn't prevent you from engaging deeply with the course material, and through well-regulated forums it actually provides you with the opportunity to engage with a broad range of other students," James says.



## How to apply.

If you're a domestic or international applicant looking to gain entry to a postgraduate coursework program at UNSW Canberra, you can apply online for free.

For more information, visit [unsw.adfa.edu.au/study/postgraduate-coursework/how-to-apply](https://unsw.adfa.edu.au/study/postgraduate-coursework/how-to-apply)

#### Postgraduate coursework application deadlines 2023

##### Semester 1

Application deadline  
Sunday 5 February 2023

Semester starts  
Monday 20 February 2023

##### Semester 2

Application deadline  
Sunday 25 June 2023

Semester starts  
Monday 10 July 2023

### Non-award enrolment

If you're interested in studying a postgraduate-level course but don't want to be enrolled in a formal award program like a masters degree, you can apply under UNSW Canberra's 'non-award enrolment'.

Successful completion of a relevant non-award course can see you granted course credit if you gain admission to the postgraduate coursework program at a later date.

### How much will my degree cost?

#### Tuition fees

Tuition fee amounts are charged per unit of credit (UOC). You're charged based on your student status (domestic or international) and the classification of your course (undergraduate, postgraduate or research) – also known as the course career or study level of your course. If you're a citizen or permanent resident of Australia, or a citizen of New Zealand, you're classified as a domestic student. If you don't fall into one of these categories, you're classified as an international student.

To calculate the tuition fee for a course, refer to the course prefix (e.g. ZBUS) and the course classification (i.e. postgraduate), then multiply by the UOC value of the course. Each UOC is currently \$690. For example, if a domestic postgraduate student enrolls in the UNSW Canberra course ZBUS8101, which has a value of 6 UOC and is classified as postgraduate, the tuition fee is  $\$690 \times 6 = \$4,140$  (based on 2022 rates).

For up-to-date tuition fee information, please visit the following links:

#### Domestic fees

[student.unsw.edu.au/fees-adfa-domestic](https://student.unsw.edu.au/fees-adfa-domestic)

#### International fees

[student.unsw.edu.au/fees-adfa-international](https://student.unsw.edu.au/fees-adfa-international)

Please note: if you're sponsored to study a course funded by the Australian Defence Force (ADF), you won't receive tuition fee invoices directly.

### Am I eligible for funding support?

#### Defence-funded postgraduate study

The Australian Defence Force (ADF) offers ADF members support to undertake postgraduate coursework and research studies at UNSW Canberra. This includes Reserve Force members rendering continuous full-time service, as well as Defence civilian personnel. Eligible ADF personnel are also able to study postgraduate programs through the Capability and Technology Management College (CTMC), located at ADFA.

Details can be found at:

[defence.gov.au/ADFA/Applications/PostgraduateStudies.asp](https://defence.gov.au/ADFA/Applications/PostgraduateStudies.asp)

#### FEE-HELP

FEE-HELP is an Australian Government tuition fee loan scheme that assists eligible fee paying Australian citizens and holders of humanitarian visas.

Details and eligibility criteria can be found at:

[studyassist.gov.au/help-loans-and-csps/fee-help](https://studyassist.gov.au/help-loans-and-csps/fee-help)

# Postgraduate coursework programs at a glance.

Program Name	Duration (Full-Time Equivalent)	School	Full Details
Master of Business	1 Year	Business	p.16
Master of Capability Management	1 Year	Engineering and Information Technology	p.18
Master of Cyber Security	1 Year	Engineering and Information Technology	p.20
Master of Cyber Security Operations	1 Year	Engineering and Information Technology	p.22
Master of Cyber Security, Strategy and Diplomacy	1 Year	Humanities and Social Sciences	p.24
Master of Decision Analytics	1 Year	Engineering and Information Technology	p.26
Master of Logistics Management	1 Year	Business	p.27
Master of Project Management	1 Year	Engineering and Information Technology	p.28
Master of Security and Defence Management	1 Year	Humanities and Social Sciences	p.31

Program Name	Duration (Full-Time Equivalent)	School	Full Details
Master of Space Engineering	1 Year	Engineering and Information Technology	p.32
Master of Space Operations	1 Year	Engineering and Information Technology	p.34
Master of Special Operations and Irregular Warfare	1 Year	Humanities and Social Sciences	p.36
Master of Strategic People Management	1 Year	Business	p.38
Master of Strategy and Security	1 Year	Humanities and Social Sciences	p.40
Master of Sustainment Management	1 Year	Business	p.41
Master of Systems Engineering	1 Year	Engineering and Information Technology	p.42
Master of War Studies	1 Year	Humanities and Social Sciences	p.44
Master of Workforce Planning	1 Year	Business	p.45

# Master of Business.

8388

## Overview

The Master of Business develops excellent managers for the public, private and not-for-profit sectors, including Defence. You'll gain an advanced understanding of the concepts and principles that underpin effective management, business decision making and leadership, plus analytical skills you can use throughout your career.

The degree combines a core set of business courses. Strategic Management is considered a capstone component but you can select a range of additional subject choices based on your areas of interest. If you're looking for a future pathway to research-focused degrees, you can also choose to undertake a substantial piece of research-based scholarship as part of your degree.

Depending on your future employment prospects, you can decide to complete the more generalist Master of Business program or the more specific Master of Business (Strategic Procurement).

## Why choose this degree?

With its structure of core and elective courses, you'll gain both broad and deep knowledge of the world of business across this degree, which will stand you in good stead as a professional manager. Drawing from a unique perspective compared with other degrees in the market, you'll develop a systems-thinking-based approach to your business management problem solving. The Master of Business at UNSW Canberra is accredited by the Association to Advance Collegiate Schools of Business (AACSB).

## Is this degree for me?

The Master of Business is designed for postgraduate scholars and professional managers wanting to gain a more advanced understanding of the concepts and principles that underpin effective management, business decision making and leadership in organisations.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of three core courses (18 UOC) and five elective courses (30 UOC).

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

## Core courses

ZBUS8101 Strategic Management (6 UOC)  
 ZBUS8102 Organisational Behaviour (6 UOC)  
 ZBUS8108 Accounting for Management Decisions (6 UOC)  
 ZBUS8109 Business Law (6 UOC)

## Elective courses

ZBUS8108 Accounting for Management Decisions (6 UOC)  
 ZBUS8210 Critical Analysis in Business (6 UOC)  
 ZBUS8103 Strategic Human Resources (6 UOC)  
 ZBUS8105 Finance and Invest Appraisal (6 UOC)  
 ZBUS8147 Business of Managing Projects (6 UOC)  
 ZBUS8148 Economic World View (6 UOC)  
 ZBUS8149 Finance for Decision Making (6 UOC)  
 ZBUS8201 Leadership (6 UOC)  
 ZBUS8203 Change Management (6 UOC)  
 ZBUS8204 Marketing (6 UOC)  
 ZBUS8205 Business Ethics (6 UOC)  
 ZBUS8317 Workforce Planning (6 UOC)  
 ZBUS8318 Cross Cultural Management (6 UOC)  
 ZPEM8209 Development Geography (6 UOC)  
 ZBUS8208 Humanitarian Logistics (6 UOC)  
 ZBUS8302 Logistics Management (6 UOC)  
 ZBUS8303 Strategic Procurement and Outsourcing (6 UOC)  
 ZBUS8313 Risk Management in Logistics (6 UOC)  
 ZBUS8314 People and Systems (6 UOC)  
 ZBUS8315 Driving Performance (6 UOC)  
 ZBUS8316 Developing Organisational Capability (6 UOC)  
 ZPEM8207 Economic Geography (6 UOC)  
 ZBUS8112 Project Implementation for Business Success (6 UOC)  
 ZBUS8113 Public Service Implementation (6 UOC)  
 ZBUS8114 Leadership of Safe and Healthy Work (6 UOC)  
 ZBUS8308 Business Planning (6 UOC)  
 ZBUS8321 Managing Diversity (6 UOC)  
 ZBUS8308 Business Planning (6 UOC)  
 ZBUS8317 Workforce Planning (6 UOC)  
 ZBUS8320 Strategic Logistics Management (6 UOC)  
 ZPEM8210 Institutional Subjectivity and Ethics (6 UOC)  
 ZBUS8501 Research Project – Business (6 UOC)  
 ZBUS8502 Research Project – Business (12 UOC)

## Student profile Isabele Lewthwaite

### Master of Business

With her husband in the Army, Isabele Lewthwaite has been thankful for the flexibility provided by UNSW Canberra's Master of Business degree.

"I couldn't commit to studying part time at a university at our current posting so online learning was my only option. With my UNSW Canberra degree I can study wherever I am."

# Master of Capability Management.

8399

## Overview

Studying the Master of Capability Management will give you a high level of understanding of the issues associated with the development and management of capability and capability systems. The course focuses on the technical and management factors that influence the design, performance, employability, logistic support and technical integrity of materiel systems to achieve capability requirements.

This degree was originally designed to meet the needs of the Defence Capability and Technology Management College (CTMC). A broader version of the program is available for the general public, with electives from systems engineering and management programs.

## Why choose this degree?

If you're interested in pursuing a capability management or defence acquisition role, this one-of-a-kind degree is unique to Australia, due to its focus on capability management. Thanks to its many varied electives, you can tailor the course to suit your needs and interests.

## Is this degree for me?

This course is designed for postgraduate scholars and professional managers who want a more detailed understanding of the managerial and technical skills and expertise associated with the planning and acquisition of complex technology and systems.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of three core courses (18 UOC) and five elective courses (30 UOC).

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

## Core courses

ZBUS8147 Business of Managing Projects (6 UOC)  
 ZBUS8302 Logistics Management (6 UOC)  
 ZBUS8306 Sustaining Capability (6 UOC)\*  
 ZBUS8912 Delivering Capability (6 UOC)\*  
 ZEIT8016 Capability Development (6 UOC)\*  
 ZEIT8226 Systems Engineering Practice (6 UOC)  
 ZEIT8230 Requirements Practice (6 UOC)

## Elective courses

ZBUS8101 Strategic Management (6 UOC)  
 ZBUS8105 Finance and Investment Appraisal (6 UOC)  
 ZBUS8203 Change Management (6 UOC)  
 ZBUS8303 Strategic Procurement Outsourcing (6 UOC)  
 ZBUS8310 Commercial Skills in the Public Sector (6 UOC)\*  
 ZBUS8911 Asset Management (6 UOC)\*  
 ZBUS8913 Leadership, Change and Innovation (6 UOC)  
 ZEIT8010 Marine Technology (6 UOC)\*  
 ZEIT8015 Cyber Operations (6 UOC)  
 ZEIT8031 Reliability Engineering Fundamentals (6 UOC)  
 ZEIT8136 Software Project Management (6 UOC)  
 ZEIT8152 Reliability Program Management (6 UOC)  
 ZEIT8205 Fundamentals of Surveillance Technologies (6 UOC)\*  
 ZEIT8213 Communications and Information Systems (6 UOC)\*  
 ZEIT8231 Test and Evaluation (6 UOC)  
 ZEIT8302 Project Administration (6 UOC)  
 ZEIT8303 Project Management Body of Knowledge (6 UOC)  
 ZEIT8402 Evidence-Based Decision Making (6 UOC)  
 ZEIT8403 Capability Option Analysis (6 UOC)  
 ZEIT8404 Decision Making Analytics (6 UOC)  
 ZEIT8412 Simulation (6 UOC)  
 ZEIT8413 Simulation Applications (6 UOC)  
 ZEIT8503 Aerospace Vehicle Technologies (6 UOC)\*  
 ZEIT8704 Vehicles and Mobility (6 UOC)\*  
 ZINT8301 Lethality and Survivability (6 UOC)\*

\*Only available to Capability and Technology Management College (CTMC) students or other Australian Defence Force personnel on approval from the Director, CTMC.



## Student profile Shannon Campbell

### Master of Cyber Security

For Shannon Campbell, studying a Master of Cyber Security at UNSW Canberra was the perfect complement to nearly a decade of IT work. Since finishing the program, Shannon says one of its major appeals was the flexibility it allowed her. While studying, Shannon continued to work full time and manage her family and social life without it affecting her stress levels.

"I was able to easily manage my time, family and work. I initially started with only one course in the first semester as I was worried about overcommitting but found that I became more organised and driven to complete the program – and finished it within two years."

Shannon also appreciated her classmates and the huge breadth of knowledge they could share, as well as the expert lecturers who supported her throughout the program.

"I liked that the majority of lecturers were visiting lecturers, so they also ran their own companies outside of the University. This meant they had up-to-date knowledge and experience in cyber security in the real world. With cyber space rapidly changing and threats evolving, these lectures were informative, and the information was transferrable."

"The intensive courses were also a great part of the program. I am a real hands-on learner and it was good to be able to come and get some experience in a face-to-face environment."

Studying a Master of Cyber Security at UNSW Canberra provided Shannon with relevant and transferrable knowledge that she now applies in her role as a Senior Security Specialist.

# Master of Cyber Security.

8628

## Overview

If you're keen to gain a more detailed understanding of the technical skills and expertise needed for the technical implementation and leadership of the cyber security function, this course offers a unique opportunity to enhance your career as a cyber security specialist.

Using principles gathered from information systems, systems engineering, computer science, network security and defence, you'll get hands-on across this degree, with regular access to the specially equipped Cyber Range laboratory. UNSW Canberra's unique Cyber Range is the largest in Australia, allowing an impressive number of students to participate in lab practices simultaneously.

You can choose to complete either the generalist Master of Cyber Security program or one of the following specialisations:

- > Advanced Tradecraft
- > Digital Forensics

## Why choose this degree?

This degree is designed to meet the demand for technical experts who can implement and lead the technical cyber security function. It will equip you with multidisciplinary aspects of cyber security which you can apply in everyday situations in the workforce. You'll have access to UNSW Canberra's Cyber Range laboratory for all your core courses.

## Is this degree for me?

This course has been especially designed for postgraduate scholars and professional managers interested in gaining technical skills and expertise through practical implementation of and leadership in cyber security offence and defence. Upon completion, you'll be able to lead the technical cyber security function in Defence, government, law enforcement and industry organisations.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC) for the general program. You can also choose one of the program specialisations which includes a different breakdown of core and elective courses.

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

## Cyber Security – General

You must complete four core courses (24 UOC) and four elective courses (24 UOC).

### Core courses

ZEIT8020 Cyber Offence: Threats and Opportunities (6 UOC)  
ZEIT8021 Information Assurance and Security (6 UOC)  
ZEIT8023 Wireless, Mobile and Internet of Things Security (6 UOC)  
ZEIT8026 Cyber Defence: Network Security Operations (6 UOC)

### Elective courses

ZEIT8024 Software Security Lifecycle (6 UOC)  
ZEIT8025 Reverse Engineering (6 UOC)  
ZEIT8027 Critical Infrastructure and Control System Security (6 UOC)  
ZEIT8028 Digital Forensics (6 UOC)  
ZEIT8029 Network and Memory Forensics (6 UOC)  
ZEIT8030 Big Data and Decision Analytics for Security (6 UOC)  
ZEIT8036 Humans and Security (6 UOC)  
ZEIT8042 Introduction to Exploit Development (6 UOC)

## Cyber Security – Advanced Tradecraft

You must complete seven core courses (42 UOC) and one elective course (6 UOC).

### Core courses

ZEIT8020 Cyber Offence: Threats and Opportunities (6 UOC)  
ZEIT8021 Information Assurance and Security (6 UOC)  
ZEIT8023 Wireless, Mobile and Internet of Things Security (6 UOC)  
ZEIT8025 Reverse Engineering (6 UOC)  
ZEIT8026 Cyber Defence: Network Security Operations (6 UOC)  
ZEIT8030 Big Data and Decision Analytics for Security (6 UOC)  
ZEIT8042 Introduction to Exploit Development (6 UOC)

### Elective courses

ZEIT8027 Critical Infrastructure and Control System Security (6 UOC)  
ZEIT8028 Digital Forensics (6 UOC)  
ZEIT8029 Network and Memory Forensics (6 UOC)

## Cyber Security – Digital Forensics

You must complete six core courses (36 UOC) and two elective courses (12 UOC).

### Core courses

ZEIT8020 Cyber Offence: Threats and Opportunities (6 UOC)  
ZEIT8021 Information Assurance and Security (6 UOC)  
ZEIT8023 Wireless, Mobile and Internet of Things Security (6 UOC)  
ZEIT8025 Reverse Engineering (6 UOC)  
ZEIT8028 Digital Forensics (6 UOC)  
ZEIT8029 Network and Memory Forensics (6 UOC)

### Elective courses

ZEIT8024 Software Security Lifecycle (6 UOC)  
ZEIT8026 Cyber Defence: Network Security Operations (6 UOC)  
ZEIT8027 Critical Infrastructure and Control System Security (6 UOC)  
ZEIT8030 Big Data and Decision Analytics for Security (6 UOC)  
ZEIT8042 Introduction to Exploit Development (6 UOC)

# Master of Cyber Security Operations.

8629

## Overview

The Master of Cyber Security Operations is designed to meet the demand for executives and managers who oversee the cyber security function in government, industry, law enforcement and Defence. You will gain a detailed understanding of the managerial and technical skills and expertise relevant to the planning, operation and acquisition of the cyber security function.

This degree provides principles gathered from information systems, cyber security, risk management and governance and is perfect if you're a manager wanting to enhance your career in cyber security operations.

The degree also offers opportunities for international education. Through UNSW's PLuS Alliance partnership, you'll also have access to courses at Arizona State University (ASU) in the US and King's College London in the UK.

## Why choose this degree?

Across this degree, you'll gain a multidisciplinary understanding of cyber security which you can apply in everyday scenarios across a variety of workforce environments.

## Is this degree for me?

This degree is ideal if you're working in cyber security management in Defence, government, the public sector or commercial organisations across a variety of sectors.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

## Core courses

ZEIT8017 Cyber Crime and Cyber Security (6 UOC)  
 ZEIT8018 Cyber Resilience: Management Governance and Acquisition (6 UOC)  
 ZEIT8032 Information Assurance Principles (6 UOC)  
 ZEIT8037 Cyber Security Risk Management (6 UOC)

## Elective courses

### Prescribed electives list 1

You can take up to a maximum of 24 UOC from the following courses.

YCAN8000 US Cyber Policy and Information Security (6 UOC)\*  
 ZEIT8019 Intrusion Analysis and Response (6 UOC)  
 ZEIT8020 Cyber Offence: Threats and Opportunities (6 UOC)  
 ZEIT8024 Software Security Lifecycle (6 UOC)  
 ZEIT8025 Reverse Engineering (6 UOC)  
 ZEIT8026 Cyber Defence: Network Security Operations (6 UOC)  
 ZEIT8027 Critical Infrastructure and Control System Security (6 UOC)  
 ZEIT8028 Digital Forensics (6 UOC)  
 ZEIT8029 Network and Memory Forensics (6 UOC)  
 ZEIT8030 Big Data and Decision Analytics for Security (6 UOC)  
 ZEIT8033 Critical Infrastructure Security Policy and Governance (6 UOC)  
 ZEIT8035 Cyber Terrorism (6 UOC)  
 ZEIT8036 Humans and Security (6 UOC)  
 ZEIT8043 Cyber and the Law (6 UOC)  
 ZPEM8208 Human Factors and Technology (6 UOC)  
 ZPEM8310 Understanding Social-Technical Systems: Ideas, Spaces and Cultures (6 UOC)

### Prescribed electives list 2

You should complete no more than two electives (12 UOC) from the following courses.

ZEIT8015 Cyber Operations (6 UOC)  
 ZEIT8115 Information Operations (6 UOC)  
 ZEIT8119 Internetworking (6 UOC)  
 ZEIT8303 Project Management Body of Knowledge (6 UOC)  
 ZHSS8441 Cyber-Security and World Politics (6 UOC)

### Research project

You can take up to a maximum of 12 UOC from the following courses.

ZEIT8260 Project Report – Cyber Security (Part Time) (6 UOC)  
 ZEIT8261 Project Report – Cyber Security (Full Time) (12 UOC)

\*Delivered through the PLuS Alliance partnership.

## Student profile Darius Mutsinze

### Master of Cyber Security Operations

After graduating from the Master of Cyber Security Operations, Australian Army Captain Darius Mutsinze has a new appreciation for the complexity and grandeur of the cyber security ecosystem.

"One of the highlights of the program was the profound realisation of how little I actually knew about cyber. It was the proverbial iceberg. With each day of study, I was better informed and equipped. Slowly the fathoms of knowledge underneath the water were more apparent and I could start to grasp just how big the cyber iceberg actually was," Captain Mutsinze said.

"Cyber is at the heart of everything. It was fascinating to explore the intrinsic interconnectivity of data and our lives."

# Master of Cyber Security, Strategy and Diplomacy.

8631

## Overview

The Master of Cyber Security, Strategy and Diplomacy will see you explore the political, military, diplomatic and senior management aspects of cyber security, cyber strategy and diplomacy. You'll gain the ability to understand key policy, operational, ethical and informational challenges around security resulting from different types of human activity.

The degree also offers opportunities for international education. Through UNSW's PLuS Alliance partnership, you'll also have access to courses at Arizona State University (ASU) in the US and King's College London in the UK.

## Why choose this degree?

With governments, enterprises, communities and civil society around the world grappling with strategy and regulation for the new domain of cyberspace, you'll focus on the key cyber security policy, operational, ethical and informational challenges in this degree.

## Who chooses this degree?

If you're working in defence, government, justice, public safety, regulatory industry, management or information sciences, this degree has been designed for you.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC). Security electives are generally offered on a two-year cycle to maximise your subject choice.

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

## Core courses

ZHSS8441 Cyber Security and World Politics (6 UOC)  
 ZHSS8464 Cyberspace, National Security and Law (6 UOC)  
 ZHSS8455 Australian Cyber Diplomacy (6 UOC)  
 ZHSS8456 Australia and Cyber War (6 UOC)  
 ZHSS8458 Cyber Policy in China (6 UOC)

## Elective courses

### Strategy and Politics

You can take up to a maximum of two courses (12 UOC) from the following courses.

ZHSS8457 Cyber Security in Asia (6 UOC)  
 ZHSS8125 Strategic Communication (6 UOC)  
 ZHSS8403 Global Security (6 UOC)  
 ZHSS8407 Global Governance in an Age of Globalisation (6 UOC)  
 ZHSS8409 Asia–Pacific Security: The Dynamics of Change (6 UOC)  
 ZHSS8410 Australian Defence Policy: Concepts and Challenges (6 UOC)  
 ZHSS8430 China's Security Policy and Military Modernisation (6 UOC)  
 ZHSS8435 Contemporary Strategy (6 UOC)  
 ZHSS8504 Space Cooperation, Conflict and Competition (6 UOC)  
 ZHSS8438 The Justice of War: States, Self-Defence and Force (6 UOC)  
 ZHSS8439 Reforming Repressive Regimes (6 UOC)  
 ZHSS8442 Conflict Transformation (6 UOC)  
 ZHSS8453 Culture and Conflict (6 UOC)  
 ZHSS8459 Special Operations: Theory and Strategic Utility (6 UOC)  
 ZHSS8460 Power and Australian Government Policy (6 UOC)  
 ZHSS8461 GRIM Threats (Guerilla, Revolutionary, Insurgent and Militia) and Irregular Warfare (6 UOC)  
 ZHSS8462 Ethics in Special Operations and Irregular Warfare (6 UOC)  
 ZHSS8463 International Law in Global Politics (6 UOC)  
 ZHSS8221 The Development of the Art of War: A Survey (6 UOC)  
 ZHSS8400 Research Project – IPS (Single Session) (12 UOC)  
 ZHSS8401 Research Project – IPS (Full Year) (6 UOC)

### Technology and Security

You can take up to a maximum of two courses (12 UOC) from the following courses.

YCAN8000 US Cyber Policy and Information Security (6 UOC)\*  
 ZEIT8015 Cyber Operations (6 UOC)  
 ZEIT8017 Cyber Crime and Cyber Security (6 UOC)  
 ZEIT8018 Cyber Resilience: Management Governance and Acquisition (6 UOC)  
 ZEIT8019 Intrusion Analysis and Response (6 UOC)  
 ZEIT8020 Cyber Offence: Threats and Opportunities (6 UOC)  
 ZEIT8024 Software Security Lifecycle (6 UOC)  
 ZEIT8025 Reverse Engineering (6 UOC)  
 ZEIT8026 Cyber Defence: Network Security Operations (6 UOC)  
 ZEIT8027 Critical Infrastructure and Control System Security (6 UOC)  
 ZEIT8028 Digital Forensics (6 UOC)  
 ZEIT8029 Network and Memory Forensics (6 UOC)  
 ZEIT8032 Information Assurance Principles (6 UOC)  
 ZEIT8036 Humans and Security (6 UOC)  
 ZEIT8115 Information Operations (6 UOC)  
 ZEIT8136 Software Project Management (6 UOC)  
 ZEIT8226 Systems Engineering Practice (6 UOC)  
 ZEIT8230 Requirements Practice (6 UOC)  
 ZEIT8302 Project Administration (6 UOC)  
 ZEIT8303 Project Management Body of Knowledge (6 UOC)  
 ZEIT8403 Capability Option Analysis (6 UOC)

\*Delivered through the PLuS Alliance partnership.

# Master of Decision Analytics.

8634

## Overview

If you're keen to develop a high-level understanding of the principles and practices of decision analytics, the Master of Decision Analytics has been designed specifically to strengthen your skills in this area. During your time on the course, you'll use qualitative and quantitative decision-making tools to analyse complex operations environments and make appropriate decisions within those environments.

## Why choose this degree?

Evidence-based decision and policy making is now the norm within the security sector and in government organisations such as Defence. This program will see you explore the methodologies used to gather evidence as you discover frameworks for good decision making.

## Is this degree for me?

This degree is ideal if you're working in management or policy roles in Defence, government organisations or the wider defence industry.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit:  
[unsw.adfa.edu.au/masters](http://unsw.adfa.edu.au/masters)

## Core courses

ZEIT8402 Evidence-Based Decision Making (6 UOC)  
ZEIT8403 Capability Option Analysis (6 UOC)  
ZEIT8404 Decision-Making Analytics (6 UOC)  
ZEIT8412 Simulation (6 UOC)

## Elective courses

ZEIT8034 Advanced Test and Evaluation Techniques (6 UOC)  
ZEIT8303 Project Management Body of Knowledge (6 UOC)  
ZEIT8305 Systems Thinking and Modelling (6 UOC)  
ZEIT8413 Simulation Applications (6 UOC)  
ZEIT8416 Research Practice Ops Analysis (6 UOC)

# Master of Logistics Management.

8564

## Overview

The Master of Logistics Management looks at managing an organisation's supply chain from a dual perspective of operations management and efficient business decision making. This approach emphasises the 'what' and the 'how' of inter-related activities of supply chain success to enable logistics managers to develop appropriate strategies.

This degree covers advanced logistics planning strategies, logistics lifecycle management, inventory management, contingency forecasting, distribution and reverse logistics. It will also develop your understanding of analytical tools and systems for information flow management, including big data analysis and business intelligence techniques.

## Why choose this degree?

This degree has a combined perspective of operations management and the type of efficient business decision making required for supply chain success, making it unique when compared with most other supply chain management programs in the market.

## Is this degree for me?

If you're a logistics manager working in the private, public or defence sectors and are keen for a more thorough understanding of logistics and techniques, this degree will take your understanding of logistics management to the next level.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit:  
[unsw.adfa.edu.au/masters](http://unsw.adfa.edu.au/masters)

## Core courses

ZBUS8147 Business of Managing Projects (6 UOC)  
ZBUS8302 Logistics Management (6 UOC)  
ZBUS8313 Risk Management in Logistics (6 UOC)  
ZEIT8226 Systems Engineering Practice (6 UOC)

## Elective courses

ZBUS8101 Strategic Management (6 UOC)  
ZBUS8108 Accounting for Managerial Decisions (6 UOC)  
ZBUS8109 Business Law (6 UOC)  
ZBUS8203 Change Management (6 UOC)  
ZBUS8208 Humanitarian Logistics (6 UOC)  
ZBUS8210 Critical Analysis in Business (6 UOC)  
ZBUS8911 Asset Management (6 UOC)  
ZEIT8402 Evidence-Based Decision Making (6 UOC)  
ZBUS8103 Strategic Human Resources (6 UOC)  
ZBUS8148 Economic World View (6 UOC)  
ZBUS8303 Strategic Procurement and Outsourcing (6 UOC)  
ZBUS8312 Logistics Intelligence and Big Data Analysis (6 UOC)  
ZBUS8113 Public Service Implementation (6 UOC)  
ZBUS8114 Leadership of Safe and Healthy Work (6 UOC)  
ZBUS8230 Strategic Logistics Management (6 UOC)  
ZBUS8321 Managing Diversity (6 UOC)  
ZBUS8403 Capability Option Analysis (6 UOC)

# Master of Project Management.

## 8595

### Overview

If you're a postgraduate student hoping to develop a higher level of understanding of the principles and practices of project management, the Master of Project Management will push you to strengthen your skills in this field. You'll develop advanced analytical skills in the key areas required to manage a project, including: integration management, scope management, communications management, risk management, quality management, schedule management, cost management, HR management, procurement management and stakeholder management. You'll become confident at handling real-world problems within any industry, as you extend your project management skills, knowledge and vocational experiences.

### Why choose this degree?

The Master of Project Management is accredited by the Australian Institute of Project Management (AIPM) and will provide you with the following benefits:

- > Assurance that the chosen course meets industry standards and reflects current best practice in project management.
- > Confidence in the quality of course content and delivery.
- > The opportunity to become aligned with the premier project management industry body – AIPM.
- > The ability to join AIPM as a student-level member, giving you access to many membership benefits.
- > The ability to apply for associate membership as soon as you receive a formal qualification.
- > Professional development opportunities and certification pathways.
- > Automatic certification at Certified.
- > Practising Project Practitioner (CPPP) level if you join AIPM as an Associate or Member (note: the RegPM assessment fee and competency assessment will be waived).

### Is this degree for me?

If you're looking to develop a deeper understanding of the principles and practices of project management, this degree – designed especially for both professionals and postgraduate scholars – will extend your skills in this area. It is open to students with a background in any discipline.

### Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of two compulsory courses (12 UOC), two core courses (12 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

### Compulsory courses

ZEIT8230 Requirements Practice (6 UOC)  
ZEIT8303 Project Management Body of Knowledge (6 UOC)

### Core courses

ZBUS8147 Business of Managing Projects (6 UOC)  
ZEIT8302 Project Administration (6 UOC)  
ZEIT8305 Systems Thinking and Modelling (6 UOC)

### Elective courses

ZBUS8101 Strategic Management (6 UOC)  
ZBUS8103 Strategic Human Resources (6 UOC)  
ZBUS8108 Accounting for Managerial Decisions (6 UOC)  
ZBUS8109 Business Law (6 UOC)  
ZBUS8203 Change Management (6 UOC)  
ZEIT8226 Systems Engineering Practice (6 UOC)  
ZEIT8403 Capability Option Analysis (6 UOC)  
ZBUS8102 Organisational Behaviour (6 UOC)  
ZBUS8105 Finance and Investment Appraisal (6 UOC)  
ZBUS8112 Project Implementation for Business Success (6 UOC)  
ZBUS8148 Economic World View (6 UOC)  
ZBUS8201 Leadership (6 UOC)  
ZBUS8204 Marketing (6 UOC)  
ZBUS8205 Business Ethics (6 UOC)  
ZBUS8208 Humanitarian Logistics (6 UOC)  
ZBUS8210 Critical Analysis of Business (6 UOC)  
ZBUS8302 Logistics Management (6 UOC)  
ZBUS8303 Strategic Procurement and Outsourcing (6 UOC)  
ZBUS8308 Business Planning (6 UOC)  
ZBUS8911 Asset Management (6 UOC)  
ZEIT8031 Reliability Engineering Fundamentals (6 UOC)  
ZEIT8136 Software Project Management (6 UOC)  
ZEIT8152 Reliability Program Management (6 UOC)  
ZEIT8231 Test and Evaluation (6 UOC)  
ZEIT8310 Project Schedule and Budget Control (6 UOC)  
ZEIT8412 Simulation (6 UOC)  
ZEIT8413 Simulation Applications (6 UOC)  
ZEIT8404 Decision-Making Analytics (6 UOC)



## Student profile Charmaine Montgomery

### **Master of Project Management**

Charmaine Montgomery says it was positive word-of-mouth from friends and colleagues about their experience at UNSW Canberra that convinced her to enrol in a Master of Project Management.

"A friend spoke very highly of her advisers and the University, so when I was in a position to consider studying myself, it was one of the first places that sprang to mind," Charmaine says.

"Life is pretty busy when you work full time and you're a parent, so I had to know that I would be able to fit study around my other commitments.

I knew that UNSW Canberra would have the infrastructure and support mechanisms that would suit study by distance."

Charmaine says the degree has also opened up job options and broadened her outlook.

"The possibilities are endless," she says. "This degree will also enhance my current role by helping to identify efficiencies in scheduling as well as problems early in the process."

Charmaine says what she loves most about studying online is being able to continue to stick to her job and family commitments. She says she can comfortably arrange study because course resources are clearly sequenced and accessible.

"While studying I have travelled interstate a number of times for Air Force Reserve service. I love that I'm not limited to having to be at home or at my normal place of work. So long as I have organised my resources,

I can meet my learning goals from pretty much anywhere," she says.

While Charmaine is a big advocate of online study, she's also completed an Intensive Delivery Mode module.

"I'm a very kinaesthetic visual learner, so having someone show me how to do causal loop diagrams made so much more sense. There was also great value in the discussions between lectures – it really helped cement some concepts," she says.

# Master of Security and Defence Management.

8573

### **Overview**

The Master of Security and Defence Management is designed for Defence, security and foreign affairs professionals who wish to gain a more detailed understanding of the factors shaping the contemporary strategic and security environment, the complex policy challenges they present, and the skills and insights required of astute managers within this context.

### **Why choose this degree?**

You'll develop an awareness of the local and global dimensions of strategy and management in a Defence environment in this program.

### **Is this degree for me?**

This degree is specifically designed for Defence, security and foreign affairs professionals.

### **Degree structure**

You must complete a total of 48 Units of Credit (UOC), made up of at least three courses (18 UOC) from each of the following lists. Courses are generally offered over a two-year cycle to maximise your subject choice.

**For up-to-date details on this program, including full course lists, please visit:**

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

### **Security**

You must take a minimum of three courses from the following list.

- ZHSS8403 Global Security (6 UOC)
- ZHSS8409 Asia–Pacific Security: The Dynamics of Change (6 UOC)
- ZHSS8410 Australian Defence Policy: Concepts and Challenges (6 UOC)
- ZHSS8435 Contemporary Strategy (6 UOC)
- ZHSS8417 Air Power in the 21st Century: Strategic Issues (6 UOC)
- ZHSS8204 Modern Naval History and Strategy (6 UOC)
- ZHSS8441 Cyber Security and World Politics (6 UOC)
- ZHSS8504 Space Cooperation, Conflict and Competition (6 UOC)
- ZHSS8125 Strategic Communication (6 UOC)
- ZHSS8459 Special Operations: Theory and Strategic Utility (6 UOC)
- ZHSS8452 Weapons of Mass Destruction and Global Security (6 UOC)
- ZHSS8453 Culture and Conflict (6 UOC)
- ZHSS8437 Global Justice and World Politics (6 UOC)
- ZHSS8442 Conflict Transformation (6 UOC)
- ZHSS8460 Power and Australian Government Policy (6 UOC)
- ZHSS8463 International Law in Global Politics (6 UOC)

### **Management**

You must take a minimum of three courses from the following list.

- ZBUS8101 Strategic Management (6 UOC)
- ZBUS8102 Organisational Behaviour (6 UOC)
- ZBUS8103 Strategic Human Resources (6 UOC)
- ZBUS8108 Accounting for Management Decisions (6 UOC)
- ZBUS8109 Business Law (6 UOC)
- ZBUS8201 Leadership (6 UOC)
- ZBUS8205 Business Ethics (6 UOC)
- ZBUS8302 Logistics Management (6 UOC)
- ZBUS8303 Strategic Procurement and Outsourcing (6 UOC)

# Master of Space Engineering.

8622

## Overview

The Master of Space Engineering is perfect if you want to develop a high-level understanding of the principles and practices of engineering related to space systems.

## Why choose this degree?

On this program, you'll obtain a solid grounding in the discipline of systems engineering, and will learn to apply this body of knowledge to space systems.

## Is this degree for me?

This highly focused degree will take your space engineering skills to the next level – whether you're looking to break into the space industry, or continue on an existing space career path.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

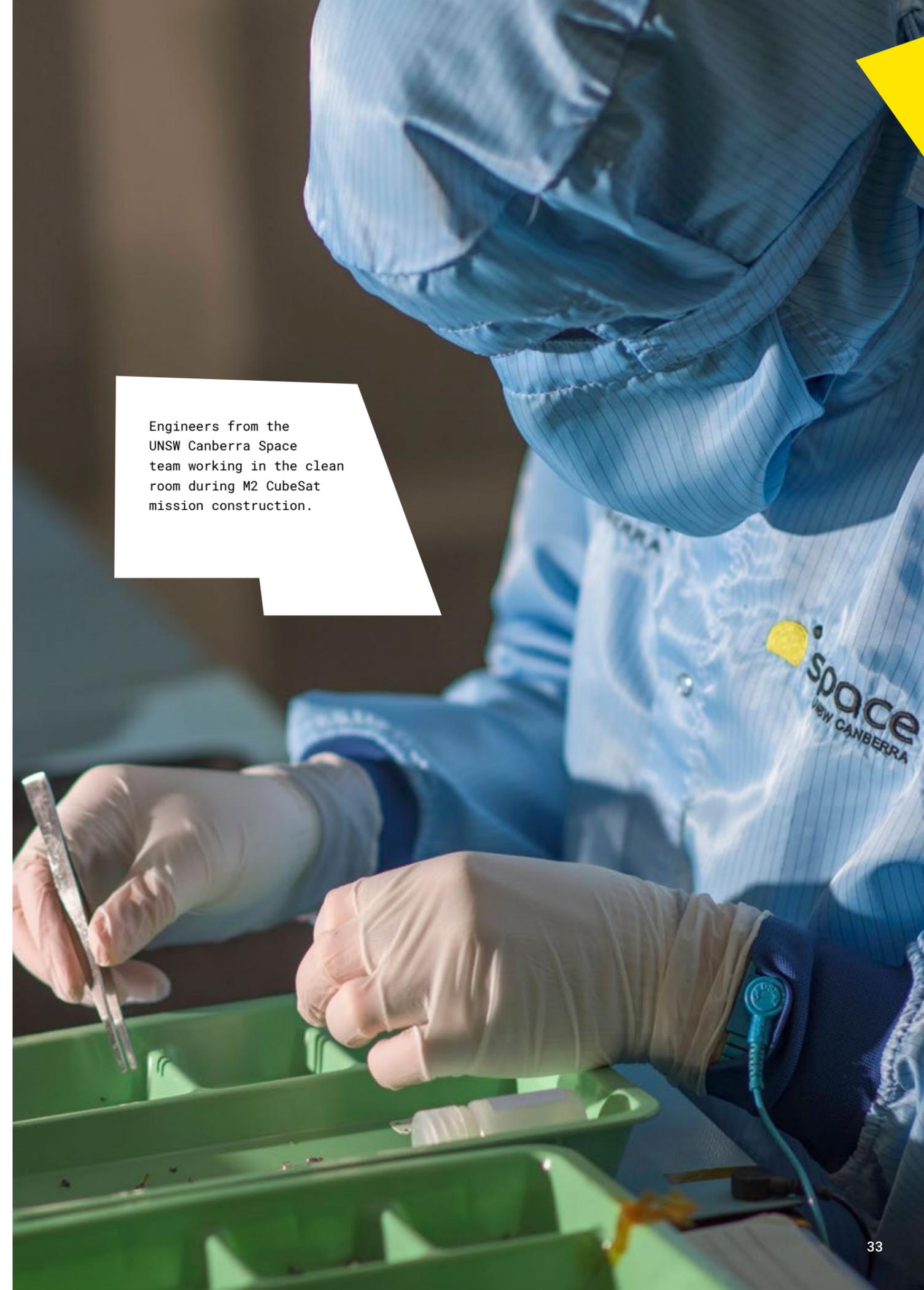
## Core courses

ZEIT8007 Space Operations (6 UOC)  
 ZEIT8008 Space Systems Design (6 UOC)  
 ZEIT8009 Global Navigation Satellite Systems (6 UOC)  
 ZEIT8012 Space Systems Engineering (6 UOC)

## Elective courses

ZEIT8032 Information Assurance Principles (6 UOC)  
 ZEIT8033 Critical Infrastructure Security Policy and Governance (6 UOC)  
 ZEIT8219 Satellite Communications (6 UOC)  
 ZEIT8221 Spaceborne Imaging Technology (6 UOC)  
 ZEIT8230 Requirements Practice (6 UOC)  
 ZEIT8231 Test and Evaluation (6 UOC)  
 ZEIT8297 Project Report – Systems Engineering (Full Time) (12 UOC)  
 ZHSS8504 Space Cooperation, Conflict and Competition (6 UOC)  
 ZEIT8303 Project Management Body of Knowledge (6 UOC)

Engineers from the UNSW Canberra Space team working in the clean room during M2 CubeSat mission construction.





## Student profile

### Ben Piggott

#### Master of Space Operations

As a Navy Lieutenant, Master of Space Operations student Ben Piggott was interested in being able to study flexibly at UNSW Canberra and even started his degree while deployed in a submarine.

"That pretty much represents the gold standard in academic flexibility," Ben says.

"Online and Intensive Delivery Modes mean I have much more flexibility to schedule study commitments around work and family."

Ben realised early in his career that further study would allow him to contribute to improving space systems knowledge in the Navy.

"Space is a fascinating environment for most academic disciplines and UNSW Canberra has a reputation for world-class engineering research and education. The University is doing pioneering work in Australia to design, build and fly space missions," Ben says.

Ben believes a masters degree from UNSW has international credibility because teaching is delivered by experts who practise what they teach.

"With postgraduate education considered favourably for promotion in the Navy and for more senior positions in industry, I'm confident my study will be valuable across a range of technical management jobs, and particularly in the space industry," he says.

# Master of Space Operations.

8624

#### Overview

The Master of Space Operations is a multidisciplinary program awarded by the School of Engineering and Information Technology. The program develops awareness of the technical, strategic and economic drivers required to conceive, design and operate spacecraft within the rapidly changing global space sector. The program analyses the intersection between the technical and strategic forces that influence operational decisions within the space domain. You'll also explore the changing space landscape and the utilisation of space for military, civilian and commercial applications.

#### Why choose this degree?

Across your studies, you'll develop a high level of understanding about the planning, operation and acquisition of space systems. You'll examine opportunities for Australia to grow its strategic space capability while operating sustainably within the space domain now and into the future.

#### Is this degree for me?

This degree is designed for postgraduate scholars and professionals with appropriate undergraduate qualifications in management, humanities and engineering, or those with extensive relevant professional experience. It's ideal if you're looking to examine space operations issues and aspects of space applications.

#### Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit: [unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

#### Core courses

ZEIT8007 Space Operations (6 UOC)  
ZEIT8011 Space Systems Technology (6 UOC)  
ZEIT8012 Space Systems Engineering Management (6 UOC)  
ZHSS8504 Space Cooperation, Conflict and Competition (6 UOC)

#### Elective courses

ZEIT8009 Global Navigation Systems (6 UOC)  
ZEIT8018 Cyber Defence: Governance, Management and Acquisition (6 UOC)  
ZEIT8032 Information Assurance Principles (6 UOC)  
ZEIT8033 Critical Infrastructure Security Policy and Governance (6 UOC)  
ZEIT8219 Satellite Communications (6 UOC)  
ZEIT8221 Spaceborne Imaging Technology (6 UOC)  
ZEIT8230 Requirements Practice (6 UOC)  
ZEIT8231 Test and Evaluation (6 UOC)  
ZEIT8303 Project Management Body of Knowledge (6 UOC)  
ZEIT8403 Capability Option Analysis (6 UOC)  
ZHSS8403 Global Security (6 UOC)  
ZHSS8410 Australian Defence Policy: Concepts and Challenges (6 UOC)  
ZHSS8435 Contemporary Strategy (6 UOC)  
ZHSS8463 International Law in Global Politics (6 UOC)  
ZHSS8467 Military Game Changers in 21st Century Warfare (6 UOC)  
ZPEM8208 Human Factors and the Technological Interface (6 UOC)  
ZPEM8310 Understanding Social-Technical Systems: Ideas, Spaces and Cultures (6 UOC)

# Master of Special Operations and Irregular Warfare.

8632

## Overview

The Master of Special Operations and Irregular Warfare is aimed at military personnel and those in the security policy community, including security contractors, who would benefit from a better understanding of special operations as a military instrument. You'll also find this degree valuable if you're a postgraduate scholar looking to complete research in this field.

It offers a combination of core courses on special operations alongside electives addressing broader issues in strategy and security. This dual approach provides both a focused view of special operations and a meaningful understanding of its context.

## Why choose this degree?

Developed by Special Operations Command personnel in conjunction with UNSW academics, this is the only degree of its kind in Australia.

## Is this degree for me?

This degree is ideal if you're currently working in special operations or the military and are looking to broaden your understanding of special operations beyond the tactical and operational. It also provides an excellent framework for government employees and contractors who require a good understanding of special operations.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC). Courses are generally offered over a two-year cycle to maximise your subject choice.

For up-to-date details on this program, including full course lists, please visit: [unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

## Core courses

ZHSS8231 The History of Special Operations (6 UOC)  
 ZHSS8459 Special Operations: Theory and Strategic Utility (6 UOC)  
 ZHSS8461 GRIM Threats (Guerilla, Revolutionary, Insurgent and Militia) and Irregular Warfare (6 UOC)  
 ZHSS8462 Ethics in Special, Complex and Irregular Military Operations (6 UOC)

## Elective courses

ZHSS8435 Contemporary Strategy (6 UOC)  
 ZHSS8403 Global Security (6 UOC)  
 ZHSS8409 Asia-Pacific Security: The Dynamics of Change (6 UOC)  
 ZHSS8410 Australian Defence Policy: Concepts and Challenges (6 UOC)  
 ZHSS8453 Culture and Conflict (6 UOC)  
 ZHSS8442 Conflict Transformation (6 UOC)  
 ZHSS8441 Cyber Security and World Politics (6 UOC)  
 ZHSS8456 Australia and Cyber War (6 UOC)  
 ZHSS8504 Space Cooperation, Conflict and Competition (6 UOC)  
 ZHSS8417 Air Power in the 21st Century: Strategic Issues (6 UOC)  
 ZHSS8221 Development of the Art of War: A Survey (6 UOC)  
 ZHSS8225 Australian Military History: An Introduction (6 UOC)

ZHSS8226 The Vietnam Wars: A Thirty Year Conflict (6 UOC)  
 ZHSS8227 Civil Wars: Society in Conflict (6 UOC)  
 ZHSS8210 Genocide: Perception and Intervention (6 UOC)  
 ZHSS8452 Weapons of Mass Destruction and Global Security (6 UOC)  
 ZHSS8503 Moral Leadership in Complex Military Operations (6 UOC)  
 ZBUS8201 Leadership (6 UOC)  
 ZHSS8001 Professional Practice (6 UOC)  
 ZHSS8430 China's Security Policy and Military Modernisation (6 UOC)  
 ZHSS8439 Reforming Repressive Regimes (6 UOC)  
 ZHSS8467 Military Game Changers in 21st Century Warfare (6 UOC)





## Student profile Samantha Dennis

### Master of Strategic People Management

In a busy role as an Airport Operations Manager for Qantas Airways, Samantha Dennis was looking for a high-quality masters program she could study online.

"UNSW Canberra has a reputation for academic excellence and the courses on offer are wide and varied. The University also offers excellent online support, which makes studying remotely very achievable," Samantha says.

Samantha says online learning has been an effective way to successfully balance work and family life, while being able to achieve her academic goals.

"I can fit study around competing work and family commitments, which has allowed me to successfully complete up to two subjects in a semester while working full time and balancing important much-needed family time," she says.

Samantha decided the Master of Strategic People Management was the best choice for her to enhance her knowledge, with the degree

aligning perfectly with her career goals and also helping her to secure her current role at Qantas.

"Having worked in Defence for more than 16 years, I have experience in personnel and business management. However, this degree has enhanced my confidence and expertise, particularly in strategic management, strategic human resources, change management and systems-thinking-related workplace opportunities," she says.

# Master of Strategic People Management.

8563

### Overview

The Master of Strategic People Management is designed to develop middle managers, particularly in people management. Middle managers are a key element of organisational change, but few university-level courses focus on their specific challenges.

This degree will provide you with an understanding of systems theory and its implications for implementation. Rather than looking at HR aspects as discrete elements, you'll integrate ideas for developing and sustaining individual and organisational capability. The idea is to enable managers to interpret organisational strategy and develop appropriate, people-focused implementation plans.

The program includes an optional research project course that will enable you to produce a substantial piece of research-based scholarship during your degree.

### Why choose this degree?

This degree is currently the only masters degree designed for line managers who want to focus more on people management than general business. You'll study systems thinking and implementation as core ideas – a unique viewpoint when compared with most HR programs.

### Is this degree for me?

This degree has been designed for postgraduate scholars and professional managers wanting a more advanced understanding of the concepts and principles underpinning strategic people management and effective leadership.

### Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

### Core courses

ZBUS8314 People and Systems (6 UOC)  
ZBUS8315 Driving Performance (6 UOC)  
ZBUS8316 Developing Organisational Capability (6 UOC)

### Plus one of:

ZBUS8101 Strategic Management (6 UOC)  
ZBUS8203 Change Management (6 UOC)

### Elective courses

ZBUS8102 Organisational Behaviour (6 UOC)  
ZBUS8103 Strategic Human Resources (6 UOC)  
ZBUS8108 Accounting for Management Decisions (6 UOC)  
ZBUS8109 Business Law (6 UOC)  
ZBUS8113 Public Service Implementation (6 UOC)  
ZBUS8114 Leadership of Safe and Healthy Work (6 UOC)  
ZBUS8147 Business of Managing Projects (6 UOC)  
ZBUS8201 Leadership (6 UOC)  
ZBUS8204 Marketing (6 UOC)  
ZBUS8205 Business Ethics (6 UOC)  
ZBUS8208 Humanitarian Logistics (6 UOC)  
ZBUS8210 Critical Analysis in Business (6 UOC)  
ZBUS8317 Workforce Planning (6 UOC)  
ZBUS8501 Research Project – Business (6 UOC)  
ZEIT8402 Evidence-Based Decision Making (6 UOC)

# Master of Strategy and Security.

8572

## Overview

The Master of Strategy and Security is designed for postgraduate scholars, foreign affairs employees, and security and defence professionals who want to gain a deeper and more advanced understanding of the factors shaping the global and Asia-Pacific security and environments. You'll also explore the complex policy challenges presented by the Australian Government's new security agenda. Among these are issues around international relations, non-state actors, regional and international security regimes, strategic planning, diplomacy and intelligence, traditional and human security, contemporary and historical conflicts, and the role of the armed forces.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of at least four core courses (24 UOC) and the remainder in elective and/or research project courses (24 UOC). Courses are generally offered over a two-year cycle to maximise your subject choice.

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](http://unsw.adfa.edu.au/masters)

## Core courses

ZHSS8403 Global Security (6 UOC)  
 ZHSS8409 Asia-Pacific Security: The Dynamics of Change (6 UOC)  
 ZHSS8410 Australian Defence Policy: Concepts and Challenges (6 UOC)  
 ZHSS8435 Contemporary Strategy (6 UOC)  
 ZHSS8460 Power and Australian Government Policy (6 UOC)  
 ZHSS8463 The Politics of International Law (6 UOC)

## Elective courses

ZHSS8417 Air Power in the 21st Century (6 UOC)  
 ZHSS8204 Modern Naval History and Strategy (6 UOC)  
 ZHSS8459 Special Operations: Theory and Strategic Utility (6 UOC)  
 ZHSS8504 Space Cooperation, Conflict and Competition (6 UOC)  
 ZHSS8441 Cyber-Security and World Politics (6 UOC)  
 ZHSS8452 Weapons of Mass Destruction and Global Security (6 UOC)  
 ZHSS8461 GRIM Threats (Guerilla, Revolutionary, Insurgent and Militia) and Irregular Warfare (6 UOC)  
 ZHSS8453 Culture and Conflict (6 UOC)  
 ZHSS8125 Strategic Communication (6 UOC)  
 ZHSS8237 The Cold War (6 UOC)  
 ZHSS8407 Global Governance in an Age of Globalisation (6 UOC)  
 ZHSS8430 China's Security Policy and Military Modernisation (6 UOC)  
 ZHSS8439 Reforming Repressive Regimes (6 UOC)  
 ZHSS8467 Military Game Changers in 21st Century Warfare (6 UOC)  
 ZHSS8442 Conflict Transformation (6 UOC)  
 ZHSS8437 Global Justice and World Politics (6 UOC)  
 ZHSS8462 Ethics in Special Operations and Irregular Warfare (6 UOC)  
 ZHSS8438 The Justice of War: States, Self-Defence and Force (6 UOC)  
 ZHSS8221 The Development of the Art of War: A Survey (6 UOC)  
 ZHSS8102 American Empire (6 UOC)  
 ZHSS8210 Genocide: Perception and Intervention (6 UOC)  
 ZHSS8227 Civil Wars: Societies in Conflict (6 UOC)  
 ZHSS8458 Cyber Policy in China (6 UOC)  
 ZHSS8464 Cyberspace, National Security and Law (6 UOC)  
 ZPEM8206 Applications in Geographic Information Analysis (6 UOC)  
 ZHSS8400 Research Project – IPS (Single Session) (12 UOC)  
 ZHSS8404 Research Project – International and Political Studies (Full Year) (6 UOC)

# Master of Sustainment Management.

8566

## Overview

The Master of Sustainment Management degree will see you develop a detailed understanding of the managerial and technical skills and expertise relevant to planning, acquisition and support of complex technology and systems over their life cycles. You'll also develop the ability to procure capability according to organisational strategy and develop appropriate implementation and sustainment plans.

## Why choose this degree?

With its structure of core and elective units, this degree encourages you to have an end-to-end approach for managing capability.

## Is this degree for me?

This degree is designed for postgraduate scholars and professional managers keen to learn more about the managerial and technical skills relevant to the planning and acquisition of complex technology and systems.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](http://unsw.adfa.edu.au/masters)

## Core courses

ZBUS8302 Logistics Management (6 UOC)  
 ZBUS8310 Commercial Skills in the Public Sector (6 UOC)  
 ZBUS8911 Asset Management (6 UOC)  
 ZBUS8913 Leadership, Change and Innovation (6 UOC)

## Elective courses

ZBUS8101 Strategic Management (6 UOC)  
 ZBUS8103 Strategic Human Resources (6 UOC)  
 ZBUS8108 Accounting and Financial Management (6 UOC)  
 ZBUS8109 Business Law (6 UOC)  
 ZBUS8147 Business of Managing Projects (6 UOC)  
 ZBUS8210 Critical Analysis in Business (6 UOC)  
 ZBUS8308 Business Planning (6 UOC)  
 ZEIT8007 Space Operations (6 UOC)  
 ZEIT8230 Requirements Practice (6 UOC)  
 ZINT8301 Lethality and Survivability (6 UOC)  
 ZBUS8303 Strategic Procurement and Outsourcing (6 UOC)  
 ZEIT8226 Systems Engineering Practice (6 UOC)  
 ZEIT8231 Test and Evaluation (6 UOC)  
 ZEIT8233 Explosive Ordnance Technology (6 UOC)  
 ZEIT8403 Capability Option Analysis (6 UOC)

# Master of Systems Engineering.

8567

## Overview

If you'd like to develop a sophisticated understanding of the principles and practices of systems engineering, then the Master of Systems Engineering is for you.

Exploring implementation using the systems engineering phases of design, development and application, you can choose to study the generalist Master of Systems Engineering program or complete the degree with one of the following specialisations:

- > Test and Evaluation
- > Space Systems
- > Electronic Warfare
- > Weapons and Ordnance
- > Networking
- > Reliability Engineering
- > Simulation
- > Marine Engineering

## Why choose this degree?

Totally unique in Australia, this degree lets you cover the principles of systems engineering while investigating your own preferred area of specialisation.

## Is this degree for me?

If you're a postgraduate scholar or professional looking to strengthen your skills in systems engineering, this degree will broaden your knowledge and understanding of the field's principles and practices.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC).

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](https://unsw.adfa.edu.au/masters)

## Core courses

ZEIT8226 Systems Engineering Practice (6 UOC)  
 ZEIT8230 Requirements Practice (6 UOC)  
 ZEIT8231 Test and Evaluation (6 UOC)  
 ZEIT8305 Systems Thinking and Modelling (6 UOC)

## Elective courses

ZBUS8302 Logistics Management (6 UOC)  
 ZEIT8136 Software Project Management (6 UOC)  
 ZEIT8236 System Safety Engineering (6 UOC)  
 ZEIT8302 Project Administration (6 UOC)  
 ZEIT8303 Project Management Body of Knowledge (6 UOC)  
 ZEIT8403 Capability Option Analysis (6 UOC)

## Specialisations

Courses for specialisations listed on website.



## Student profile Anthony Barnes

### Master of Systems Engineering

Anthony Barnes completed both his undergraduate degree and Master of Project Management at UNSW Canberra, so he knew what to expect when he enrolled in a Master of Systems Engineering.

"The calibre of UNSW Canberra's staff, the breadth and quality of its programs, the flexibility offered in its various course delivery mediums and the support for its students are all simply first class," Anthony says.

His timing couldn't be better. He is specialising in space systems just as Australia ramps up its efforts in the space sector.

"Space is increasingly recognised as a critical domain, which has and will continue to facilitate the delivery of numerous essential services, ranging from global positioning, telecommunications and imagery. Its prominence and importance to Australian society has been underscored by the recent creation of the Australian Space Agency," he says.

"Skills and experience in systems engineering will continue to be at the very forefront of the safe and secure delivery of capabilities and services within this important domain."

Anthony says study wouldn't be possible without UNSW Canberra's flexible online delivery model.

"As a busy professional, online learning has provided me with the flexibility to complete my program from anywhere in the world, at a pace, time and place of my convenience."



# Master of War Studies.

8571

## Overview

The Master of War Studies is an interdisciplinary degree focused on war and its effects. It's built around a central core of subjects in military history, with additional options addressing strategy, international relations, security and literature.

## Why choose this degree?

This degree will deepen your understanding of war while developing high-level analytical skills. Studies at UNSW Canberra offer unparalleled expertise in military history in Australia, recognised success in the student experience, and a high degree of compatibility with career and study options.

## Is this degree for me?

Members of the Australian Defence Force and other military personnel, as well as those in the broader Defence community, will find the degree has strong professional relevance. It's also suited to history teachers and postgraduate scholars from a range of disciplines who have an interest in military history or armed conflict.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of four core courses (24 UOC) and four elective courses (24 UOC). Courses are generally offered over a two-year cycle to maximise your subject choice.

For details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](http://unsw.adfa.edu.au/masters)

## Core courses

ZHSS8225 Australian Military History: An Introduction (6 UOC)  
 ZHSS8223 The First World War 1914–1919 (6 UOC)  
 ZHSS8220 Fighting the Second World War (6 UOC)  
 ZHSS8204 Modern Naval History and Strategy (6 UOC)  
 ZHSS8231 The History of Special Operations (6 UOC)

## Elective courses

ZHSS8221 Development of the Art of War: A Survey (6 UOC)  
 ZHSS8106 War and Memory (6 UOC)  
 ZHSS8235 Ten American Conflicts: The Origins of US Military History (6 UOC)  
 ZHSS8230 Russian Military History (6 UOC)  
 ZHSS8236 A British Way in Warfare? Strategy and Defence Policy (6 UOC)  
 ZHSS8237 The Cold War (6 UOC)  
 ZHSS8226 The Vietnam Wars: A Thirty Year Conflict (6 UOC)  
 ZHSS8210 Genocide: Perception and Intervention (6 UOC)  
 ZHSS8224 Small Wars of Empire: Colonial Warfare from 1700 (6 UOC)  
 ZHSS8232 History of Post-Colonial Warfare in Africa: An Introduction (6 UOC)  
 ZHSS8227 Civil Wars: Societies in Conflict (6 UOC)  
 ZHSS8102 American Empire (6 UOC)  
 ZHSS8125 Strategic Communication (6 UOC)  
 ZHSS8417 Air Power in the 21st Century: Strategic Issues (6 UOC)  
 ZHSS8435 Contemporary Strategy (6 UOC)  
 ZHSS8452 Weapons of Mass Destruction and Global Security (6 UOC)  
 ZHSS8456 Australia and Cyber War (6 UOC)  
 ZHSS8459 Special Operations: Theory and Strategic Utility (6 UOC)  
 ZHSS8461 GRIM Threats (Guerilla, Revolutionary, Insurgent and Militia) and Irregular Warfare (6 UOC)  
 ZHSS8438 The Justice of War: States, Self-Defence and Force (6 UOC)  
 ZHSS8467 Military Game Changers in 21st Century Warfare (6 UOC)

# Master of Workforce Planning.

8561

## Overview

The Master of Workforce Planning at UNSW Canberra will see you develop skills to improve organisational productivity and outcome through the systematic prediction of employee demand and supply. You'll gain knowledge to enable the forecasting and deployment of capability to support the strategic development of your organisation.

## Why choose this degree?

The degree integrates strategic theory with modelling applications. You'll learn different aspects of developing a workforce plan, before applying this knowledge to create new ideas and plans. The program includes optional research project courses so you can produce a substantial piece of research-based scholarship during your degree.

This fully online program balances advanced theory with practical knowledge, offering you the opportunity to learn how to develop effective future workforce plans.

## Is this degree for me?

This degree has been designed for postgraduate scholars and professional managers wanting a more advanced understanding of the concepts and principles underpinning workforce planning.

## Degree structure

You must complete a total of 48 Units of Credit (UOC), made up of five core courses (30 UOC) and two prescribed electives (12 UOC). You must also complete one free elective course (6 UOC) from any UNSW Canberra postgraduate course offering. Courses are generally offered over a two-year cycle to maximise your subject choice.

For up-to-date details on this program, including full course lists, please visit:

[unsw.adfa.edu.au/masters](http://unsw.adfa.edu.au/masters)

## Core courses

ZBUS8314 People and Systems (6 UOC)  
 ZBUS8317 Workforce Planning (6 UOC)  
 ZEIT8305 Systems Thinking and Modelling (6 UOC)  
 ZEIT8307 Systems Dynamics Modelling (6 UOC)  
 ZPEM8311 Data Analysis and Applications (6 UOC)

## Elective courses

ZBUS8101 Strategic Management (6 UOC)  
 ZBUS8103 Strategic Human Resources (6 UOC)  
 ZBUS8147 The Business of Managing Projects (6 UOC)  
 ZBUS8148 Economic World View (6 UOC)  
 ZBUS8149 Finance for Decision-Making (6 UOC)  
 ZBUS8315 Driving Performance (6 UOC)  
 ZBUS8316 Developing Organisational Capability (6 UOC)  
 ZBUS8506 Workforce Planning Research (6 UOC) (Defence students only)

# Postgraduate research.



## **Student profile** **Katja Theodorakis**

### **National Security Professional**

Katja is a national security professional and PhD candidate at the School of Humanities and Social Sciences (HASS), with particular expertise in the areas of terrorism/extremism, jihadism and the propaganda dynamics of asymmetric conflict. Her doctoral thesis examines the moral dimensions of insurgent propaganda narratives and their strategic use in information operations.

# What does postgraduate research involve?

If you'd like to undertake a more thorough exploration of a field or topic, a postgraduate research program is the perfect pathway. Options at UNSW Canberra include the Master of Philosophy, Master by Research, Professional Doctorate and Doctor of Philosophy (PhD). The major component of a postgraduate research program is a substantial piece of research (a thesis) which investigates a particular subject or issue. As a research candidate, you'll work more independently than a postgraduate coursework student, but with guidance and support from an academic supervisor or supervisory panel.

## Master of Philosophy (MPhil)

A Master of Philosophy (MPhil) combines a thesis comprising an original piece of research that is at least 66% of the degree, and compulsory coursework including research training relevant to the field of study. You'll be expected to produce a thesis of no more than 40,000 words that demonstrates independent thought, enhanced disciplinary knowledge, analytical skills and mastery of appropriate methodology. Duration is 1.5 to two years full time with minimum commitment of 35–40 hours per week (part time also available).

## Masters by Research (MRes)

A Masters by Research (MRes) requires the completion of an original piece of research that, given the timeframe, is more limited in scope and nature than a PhD thesis. You'll be expected to demonstrate independent thought, mastery of appropriate methodology, enhanced disciplinary knowledge and analytical skills through the production of a thesis of no more than 75,000 words. Duration is 1.5 to two years full time with minimum commitment of 35–40 hours per week (part time also available).

## Professional Doctorate

The Professional Doctorate provides you with the opportunity to translate your research for a particular professional context. By combining doctoral research with workplace-based projects, you'll generate and analyse evidence to address real-world problems, producing a thesis of up to 60,000 words that reflects original research undertaken through professional practice. The degree can take from three to four years (full-time equivalent) to complete and comprises one-third coursework and two-thirds research. The program is designed to prepare you for the highest level of professional practice, allowing you to contribute significantly to the development of your field.

## Doctor of Philosophy (PhD)

A Doctor of Philosophy (PhD) requires completion of a piece of research that demonstrates a significant and original contribution to knowledge in the field of study. You'll acquire advanced specialist research training and produce a thesis of no more than 100,000 words that provides evidence for independent thought, critical analysis and expert knowledge of the discipline in an international context. Duration is three to four years full time with minimum commitment of 35–40 hours per week (part time also available).

# Why study postgraduate research at UNSW Canberra?

When you choose a postgraduate research degree at UNSW Canberra, you'll not only leave with a highly respected and internationally recognised qualification but you'll have the chance to work with leading academics and researchers in your chosen field, as well as access to state-of-the-art facilities.

## World-class research facilities

As a research student, you'll enrich your education with access to state-of-the-art labs, design studios, the UNSW Canberra library and celebrated leisure facilities. Plus we have the best staff-to-student ratio in the country.

## Recognised throughout the world

As a founding member of the Group of Eight (Go8) universities, UNSW is a top-ranking university and globally recognised for our cutting-edge teaching, research, advanced facilities and quality of student life.

## Expert research supervisors

UNSW Canberra is regarded as a premier education provider excelling in teaching and research. So it goes without saying that many academics at UNSW Canberra are recognised as leaders in their field.

## Living in Canberra

Residents have the highest quality of life across income, employment, health, access to services, environment, education, safety, civic engagement and housing. With an international airport and national cultural and government institutions, Canberra is a two-hour drive from coastal beaches in one direction and snow fields in the other, and a three-hour drive from Sydney.



## Lena Meyer

The satellite platform Lena Meyer holds in her hands is the culmination of two years' work. Combining materials science and advanced manufacturing, this technology demonstration will inform future small satellite design and CubeSat missions.

# Am I eligible?

Entry into postgraduate research programs at UNSW Canberra is available to applicants with the following minimum requirements.

## Master of Philosophy

- > An appropriate UNSW bachelors degree in a relevant discipline at a level specified by the faculty Higher Degree Committee (HDC); or
- > An equivalent qualification from a tertiary institution as determined by the faculty HDC.

## Masters by Research

- > An appropriate four-year UNSW bachelors degree with lower second-class honours or higher; or
- > An equivalent qualification from a tertiary institution, as determined by the HDC.

## Professional Doctorate

- > An appropriate UNSW bachelors degree or an equivalent qualification from another tertiary institution; and
- > Completion of a qualifying program (masters with specific discipline) to an approved standard (Distinction average or better); and
- > Professional experience.

## Doctor of Philosophy

- > An appropriate UNSW bachelors degree with upper second-class honours; or
- > A completed Masters by Research from UNSW with a substantial research component which demonstrated capacity for timely completion of a high-quality research thesis; or
- > An equivalent qualification from a tertiary institution as determined by the faculty HDC.

# How to apply.

## Step 1 – Check your eligibility

Check your eligibility and competitiveness using the HDR Self-Assessment Tool.

[research.unsw.edu.au/submit-application](https://research.unsw.edu.au/submit-application)

## Step 2 – Find a supervisor

Find a supervisor working in your area of interest using the online search tool and contact them.

When searching for a supervisor, keep the following in mind:

- > Research interests
- > Resources
- > Personality
- > Working styles
- > Guidance on developing your skills

Once you've secured a primary supervisor in your research area, arrange to meet them in person or via a video call to discuss your research interest.

[research.unsw.edu.au/finding-supervisor](https://research.unsw.edu.au/finding-supervisor)

## Step 3 – Develop a research description

Work with your supervisor to develop a proposal for your research interest. Your research proposal should be approximately one page in length and include the following:

- > Title of your research proposal
- > Statement of the research problem and its significance
- > Details of any previous research and/or research gaps
- > Details of how you plan to address this problem

Some schools have additional requirements for the research proposal.

## Step 4 – Prepare your supporting documents

Required documents include:

- > Supervisor's agreement
- > Research proposal
- > Resume (CV)
- > All academic transcripts (including grading system for each institution)
- > English language test results or proof of prior study in English that meets the UNSW English Language requirements (UNSW Canberra does not support requests for an English waiver)
- > Evidence of financial declaration

It's important to read the document submission guidelines prior to submitting your application.

[research.unsw.edu.au/submit-application](https://research.unsw.edu.au/submit-application)

## Step 5 – Submit your application online

You can apply for both admission and a UNSW scholarship within the same application, but please make sure your scholarship round aligns with the commencement term.

Know the application dates in advance.

[research.unsw.edu.au/key-dates](https://research.unsw.edu.au/key-dates)

Submit your application online, attaching scanned copies of your supporting documents to your application.

[applyonline.unsw.edu.au/login](https://applyonline.unsw.edu.au/login)

Before you start the application process, you might like to explore UNSW Canberra's research strengths and research centres. See pages 56 to 58 for further details.



# Research fees and scholarships.

## Tuition fees

The costs associated with enrolment in a higher degree by research program vary depending on whether you're a domestic or international candidate.

### Domestic

Domestic postgraduate research candidates at UNSW may be offered a Research Training Program (RTP) Fees Offset Scholarship for full-time or part-time study.

Funded by the Australian Government, an RTP Fees Offset Scholarship is used by the University to offset your tuition fees so that you may receive free research training (four years for a PhD/Professional Doctorate; two years for a masters degree).

If you enrol in approved coursework subjects as part of your higher degree by research program at UNSW, you won't be charged any additional tuition fees.

For more information on the Research Training Program, visit the Department of Education, Skills and Employment:

[education.gov.au/research-training-program](https://education.gov.au/research-training-program)

### International

If you're an international candidate, you're required to pay tuition fees for the duration of your candidature unless you've been granted a scholarship or sponsorship that covers these fees.

You're required to pay a tuition fee deposit before your initial enrolment. Once you're enrolled, you'll receive a fee statement each term. If you enrol in approved coursework as part of your higher degree by research program, you won't be charged any additional tuition fees.

Further information can be found at:

[student.unsw.edu.au/fees-adfa-international](https://student.unsw.edu.au/fees-adfa-international)

## Scholarships

To be considered for a scholarship at UNSW, you must meet all the requirements for admission to your preferred degree.

Details can be found at:

[research.unsw.edu.au/higher-degree-research-programs](https://research.unsw.edu.au/higher-degree-research-programs)

Scholarship applications are assessed in competitive rounds and awards are made on the basis of academic merit, research experience and research potential.

Details can be found at:

[research.unsw.edu.au/graduate-research-scholarships](https://research.unsw.edu.au/graduate-research-scholarships)

## Domestic

In addition to offering the RTP Fee Offset Scholarship full time on campus, domestic candidates not undertaking full-time work may also apply for a research scholarship that provides a living stipend.

Details can be found at:

[research.unsw.edu.au/domestic-research-scholarships](https://research.unsw.edu.au/domestic-research-scholarships)

[unsw.adfa.edu.au/study/postgraduate-research/scholarships](https://unsw.adfa.edu.au/study/postgraduate-research/scholarships)

## International

International candidates of exceptional research potential can apply for a UNSW International Research Scholarship.

UNSW Canberra offers generous scholarships to international candidates to undertake a postgraduate research degree on campus at UNSW Canberra.

For more information on international scholarships, visit:

[research.unsw.edu.au/international-research-scholarships](https://research.unsw.edu.au/international-research-scholarships)

[unsw.adfa.edu.au/study/scholarship/international-postgraduate-research-scholarships](https://unsw.adfa.edu.au/study/scholarship/international-postgraduate-research-scholarships)

# Postgraduate research programs at a glance.

Program Name	Duration (Full-Time Equivalent)	Delivery Mode	School
<b>Master of Philosophy</b>			
<b>Master of Philosophy</b> > Aerospace, Civil and Mechanical Engineering > Business > Humanities and Social Sciences > Information Technology and Electrical Engineering > Physical, Environmental and Mathematical Science	1.5–2 Years	On Campus	SBUS/HASS/SSCI/SEIT
<b>Masters by Research</b>			
<b>Master of Arts by Research</b>	1.5–2 Years	On Campus	HASS
<b>Master of Business by Research</b>	1.5–2 Years	On Campus	SBUS
<b>Master of Engineering by Research</b> > Aerospace Engineering > Civil Engineering > Electrical Engineering > Mechanical Engineering	1.5–2 Years	On Campus	SEIT
<b>Master of Science by Research</b> > Chemistry > Computer Science > Geography > Mathematics and Statistics > Oceanography > Physics	1.5–2 Years	On Campus	SSCI/SEIT

Visit [unsw.adfa.edu.au/study/postgraduate-research](https://unsw.adfa.edu.au/study/postgraduate-research) for full degree details.

Program Name	Duration (Full-Time Equivalent)	Delivery Mode	School
<b>Professional Doctorate</b>			
<b>Doctor of Cyber Security</b>	3–4 Years	On Campus	SEIT
<b>Doctor of Information Technology</b>	3–4 Years	On Campus	SEIT
<b>Doctor of Project Management</b>	3–4 Years	On Campus	SEIT
<b>Doctor of Public Leadership</b>	3–4 Years	On Campus	HASS
<b>Doctor of Public Management</b>	3–4 Years	On Campus	SBUS
<b>Doctor of Systems Engineering</b>	3–4 Years	On Campus	SEIT
<b>Doctor of Philosophy</b>			
<b>Doctor of Philosophy</b> > Aerospace Engineering > Chemistry > Civil Engineering > Computer Science > Cyber Security > Economics and Management > Electrical Engineering > English > Geography > History > International and Political Studies > Mathematics and Statistics > Mechanical Engineering > Oceanography > Physics > Project Management > South-East Asian Social Inquiry > Systems Engineering	3–4 Years	On Campus	SBUS/HASS/SSCI/SEIT

# Research strengths.

## Advanced Electromagnetics

### Engineering and Information Technology

The Advanced Electromagnetics group combines expertise in nanophotonics, metamaterials, quantum optics, optical coherence and machine learning to drive innovation.

## Advanced Materials and Impact Dynamics

### Engineering and Information Technology

Using computational and experimental approaches, researchers design and manufacture materials and structures and test their resilience to load and impact for a range of aerospace, civil, construction, marine and defence industry applications.

## Asia-Pacific Politics and Security

### Humanities and Social Sciences

The school supports interdisciplinary approaches to understanding Australia's neighbouring region, one of the most dynamic and volatile in the world. Our researchers use the methods of social anthropology, political science and history to explore the changes underway in the region. Current research topics include social development, policy and security studies, and civil society.

## Australian Literature

### Humanities and Social Sciences

UNSW Canberra researchers have expertise in most 19th and 20th century Australian literature, employing interdisciplinary cultural history and theory, including book history, textual studies and international comparative frames. UNSW Canberra offers outstanding resources for higher degree by research in these fields.

## Computational Science

### Science

UNSW Canberra conducts numerically intensive research in areas ranging from bushfire propagation, sedimentation modelling, mesoscale cyclonic systems, theoretical studies of catalysis and gas-surface interaction, nonlinear systems and number theory, to calculating supernova and antimatter production rates in the galaxy.

## Control

### Engineering and Information Technology

UNSW Canberra provides world-class expertise in quantum, stochastic and robust control theory and applications in nanotechnology, power systems and control of networked systems.

## Culture, Literature and Media in War /Social Change and Cultural Conflict

### Humanities and Social Sciences

UNSW Canberra researchers study the literary and cultural responses to modern war, from the 18th century to the present day. The University specialises in questions of remembrance, reconciliation and identity, the book history of modern war, the history of censorship, the role of journalism in modern conflict, as well as the cultural work of distinct genres such as the military memoir, the war novel and travel writing.

## Cyber Security

### Engineering and Information Technology

The UNSW Institute for Cyber Security is a multidisciplinary centre that undertakes research into cybersecurity technologies, focusing on cyber security for law, national security and defence.

## Decision Making and Complex Systems

### Engineering and Information Technology

UNSW Canberra undertakes research in a range of areas relevant to the delivery of capability systems: systems thinking, complex systems, system of systems, systems engineering, requirements engineering and project management.

## Economics and Econometrics

### Business

UNSW Canberra's economics research focuses on issues related to fragile states and development, skills and skilled migration and labour market economics, using sophisticated statistical techniques to analyse economic data.

## Geographical Science

### Science

UNSW Canberra research spans the broad range of geographical contexts, from land management, urban development and peri-urban agriculture, to theoretically informed human and cultural geography. Research in this area covers contemporary issues in Asia, Africa, Europe and the South Pacific.

## Global Security

### Humanities and Social Sciences

UNSW Canberra's researchers in this area concentrate on long-standing and emerging challenges in national, regional and global security, with a particular focus on Australian defence and security policy; the Asia-Pacific region; nuclear weapons; human security; and global security governance. The University pursues a range of interests: managing strategic stability and preventing

conflict; relations with a rising China; military diplomacy; nuclear arms control and disarmament; security ethics; and the politics of security. Our researchers are also leaders in applying non-traditional approaches such as human security, resilience and cosmopolitanism to new security challenges: climate change; natural disasters; systemic insecurity; ethnic conflict; terrorism; and postmodern conflicts.

## Governance and Strategic Decision Making

### Business

UNSW Canberra's research explores a number of critical areas, including research into how to organise, manage and develop responsive and effective governing systems at a range of levels; how to foster entrepreneurship and encourage creativity and innovation; how to improve decision making and provide strategic guidance to effective planning, design and implementation of strategy in organisations. The University also has an interest in migration and development, exploring various facets through research and using this to inform policy.

## Hypersonics

### Engineering and Information Technology

UNSW Canberra combines analytical, numerical and experimental expertise to investigate fundamental and applied high-speed flow phenomena and inform vehicle design and development.

## International Ethics, Norms and Law

### Humanities and Social Sciences

'International Ethics' brings together international relations (IR), political theory and moral philosophy to address ethical questions in international politics. It is an increasingly prominent academic field of research, and one in which UNSW Canberra has unique strength.

## Logistics and Business System Modelling

### Business

UNSW Canberra's team has expertise in business analytics, modelling and big data at the intersection of business and advanced information technology. Research is carried out through partnerships with industry to develop innovative solutions in logistics networks, asset management and sustainment.

## Military History

### Humanities and Social Sciences

The military history research program leads the discipline nationally, with a significant and growing international presence in the study of armed conflict and society in historical perspective. Individual researchers specialise in both the broader impact of war and armed conflict upon society, and the technical dimensions of war expressed in strategy and policy. UNSW Canberra has specific expertise in German, US, Australian, French, Ottoman and Turkish, British and Empire/Commonwealth military history, the two world wars and naval and maritime history.

## Optimisation

### Engineering and Information Technology

UNSW Canberra has developed advanced modelling and efficient optimisation and computational approaches to solve complex real-world design and decision-making problems.

## Physical Science

### Science

UNSW Canberra's research spans chemical synthesis and molecular design, laser spectroscopy and materials characterisation. With excellent experimental facilities available, studies are underway on magnetocaloric materials, optical storage and supramolecular cages with pharmaceutical applications.

## Public Sector Management

### Business

UNSW Canberra explores the ways in which public services are delivered, and the capabilities and knowledge required for the provision of those services. One particular research strength in this area is public sector human resource management, including performance management.

## Quantum Engineering

### Engineering and Information Technology

UNSW Canberra applies analytical and numerical techniques from quantum physics and optimisation to the design and development of quantum systems for sensing, computing and communication.

## Space

### Engineering and Information Technology

UNSW Canberra employs a range of space research strengths and capabilities, including expertise in spacecraft design, assembly, integration and verification; autonomous control; sensor development; orbital tracking and communications; and high-speed and low-density flows.

## Trusted Autonomy

### Engineering and Information Technology

UNSW Canberra breaks silos in artificial intelligence, cognitive science, data sciences, decision sciences, human-machine teaming, testing, and unmanned platforms to research and develop trusted autonomous systems.

# Research institutes, centres and groups.

UNSW Canberra has a critical mass of active researchers in the following institutes, centres and groups. Join our research teams to help solve important, contemporary challenges.

## UNSW Defence Research Institute

The UNSW Defence Research Institute (DRI) brings together the University's research capabilities with its global academic and industry partners, developing and delivering groundbreaking defence and security research. The DRI supports individuals and organisations by giving them access to UNSW's knowledge exchange activities. This includes research collaborations, conferences and seminars, professional education short courses, undergraduate education programs, and postgraduate research and coursework programs.

[dri.unsw.edu.au](http://dri.unsw.edu.au)

## Capability Systems Centre

The Capability Systems Centre (CSC) undertakes research and education across a range of disciplinary areas relevant to the delivery of capability systems.

[unsw.adfa.edu.au/capability-systems-centre](http://unsw.adfa.edu.au/capability-systems-centre)

## UNSW Canberra Cyber

UNSW Canberra Cyber is a multidisciplinary centre which contributes research and teaching expertise in cybersecurity technologies. Programs are taught in our unique Cyber Range laboratories.

[unsw.adfa.edu.au/unsw-canberra-cyber](http://unsw.adfa.edu.au/unsw-canberra-cyber)

## UNSW Canberra Space

UNSW Canberra Space is a leader in the field of advanced intelligent satellite systems, developing and providing space and artificial intelligence research, technology and education to help meet national and global needs.

[unsw.adfa.edu.au/space-research](http://unsw.adfa.edu.au/space-research)

## Public Leadership Research Group

The Public Leadership Research Group (PLRG) hosts a range of academic activities focusing on the promotion of the contest of ideas and advancing the public interest. This includes the development of the Howard Library (located at Old Parliament House) which showcases the conflicts and controversies of Australian public life between 1996 and 2007, and provides resources and forums for students and researchers.

[unsw.adfa.edu.au/publicleadership](http://unsw.adfa.edu.au/publicleadership)

[howardlibrary.unsw.edu.au](http://howardlibrary.unsw.edu.au)

## Public Service Research Group

The Public Service Research Group (PSRG) partners with organisational clients to produce new insights into effective public service implementation and evaluation. This includes performing timely, high-quality and reliable research into public policy implementation and drawing on this in delivering world-class executive education and professional development.

[unsw.adfa.edu.au/public-service-research-group](http://unsw.adfa.edu.au/public-service-research-group)

# Support services.

As a student, UNSW Canberra offers you excellent support services to ensure your study experience is as smooth and trouble free as possible.

## The Academy Library

If you're studying off campus, the Academic Library provides a range of services to support your learning, including access to high-quality electronic resources, and the home delivery of print materials.

## Student Administrative Services

The Student Administrative Service (SAS) provides you with administrative support to answer any questions you might have about admission, scholarships, enrolment, research candidature and graduation.

## Academic Language and Learning unit

As a student, you have access to all Academic Language and Learning (ALL) services. The ALL unit provides you with opportunities to further develop your academic skills, master academic language and literacy strategies, and clarify academic expectations to help you achieve your academic potential.

## Counselling service

This confidential, free-of-charge service with a qualified professional clinical psychologist (student counsellor) is designed to support you in facing challenges, navigating change and regaining balance in your life. All enrolled UNSW Canberra postgraduate students are entitled to counselling sessions.

# Still curious?

## UNSW Canberra

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