



**UNSW**  
THE UNIVERSITY OF NEW SOUTH WALES  
CANBERRA

## Postgraduate Coursework and Research Guide 2012

Never Stand Still

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# Introduction

The Canberra campus of The University of New South Wales (UNSW) is located at the Australian Defence Force Academy. Postgraduate programs at UNSW Canberra are accessible by all members of the community, providing they meet the entry requirements.

The Academy was opened in 1986 and operates under an Agreement between The University of New South Wales and the Commonwealth of Australia. The Academy provides tertiary education and military training for the Australian Defence Force (ADF).

At the Academy, The University of New South Wales is responsible for conducting academic programs and research. In addition to educating undergraduate students for the Australian Defence Force, UNSW Canberra has a range of postgraduate programs open to the general community as well as Defence personnel. Applications for these programs may be made by Australian citizens/permanent residents, New Zealand citizens and international students who are eligible to apply for a valid student visa.

As at 11 May 2011 the total number of students enrolled at UNSW Canberra campus was approximately 2,850. Of these some 1,078 were undergraduate students, 1,345 were postgraduate coursework students, 302 were higher degree research students and the remaining were non-award students.

UNSW Canberra is part of a significant research institution, and offers a supportive and stimulating environment for postgraduate research and coursework study. Coursework or research students studying at UNSW Canberra, gain all the advantages of studying with one of Australia's largest, well-established and research intensive tertiary institutions. The University of New South Wales is a member of Australia's Group of Eight institutions and a member of Universitas 21.

## **Advantages of studying as a postgraduate student at UNSW Canberra:**

- All degrees, graduate diplomas and graduate certificates are awarded by the University of New South Wales.
- UNSW Canberra is smaller than most Australian academic institutions with small classes, making it easy to access staff and facilities.
- The best university teacher-to-student ratio in the country
- UNSW Canberra has an excellent research record with a number of internationally recognised academics.
- Most programs may be commenced either at the beginning or in the middle of the year.
- The campus has a large and comprehensive library and state of the art computing facilities.
- All programs are available by Distance and intensive delivery mode.
- Your study costs may be paid if you are employed by Defence.

## » Rector's Welcome

Welcome to the Postgraduate Coursework and Research Study Guide offered by the University of New South Wales Canberra campus located at the Australian Defence Force Academy. This guide will provide you with the information you need to make the right choice about your postgraduate education at UNSW Canberra.

The long-term relationship between The University of New South Wales and the Department of Defence shows that many of our postgraduate programs have a Defence orientation. However, all our research and teaching is undertaken in the context of a balanced and liberal education and our programs attract an interesting cross-section of Defence and non-Defence students.

We offer a broad range of postgraduate coursework and research programs in a small but well-respected institution, with ready access to academic staff and resources including a world class library. Students have the opportunity to develop academically on a beautiful campus, coupling the advantages of academic rigour with a vibrant community environment.

Working closely with organisations from both the private and public sectors, our internationally recognised academic staff are active in pursuing original quality research and building our high research profile. Their research activities ensure that the teaching programs gain strength, vitality and currency and remain relevant in a rapidly changing environment.

I hope you will take the time to consider the benefits of studying at UNSW Canberra and to view our other information resources, such as our website. Please contact our staff if you require any further assistance.



**Professor Michael Frater**  
Rector, UNSW Canberra

## » Message from the Commander of the Australian Defence College

As part of the Department of Defence's ongoing commitment to developing its people, I would like to take this opportunity to encourage Defence personnel to consider Defence-funded study through the University of New South Wales at the Australian Defence Force Academy.

The programs outlined in this guide allow civilians and Australian Defence Force members to access a range of high quality postgraduate courses that you will find both challenging and rewarding.

The courses offered by UNSW Canberra will allow you to develop the knowledge, skills and expertise required to excel in your careers. I personally recommend the Master of Philosophy which is a research-based degree. Consisting of a thesis and coursework it represents an excellent way to make the transition into creative, original research and opens up opportunities to do even more in the future. Many MPhil graduates have made important contributions through their research.

While studying at UNSW Canberra, you can expect small class sizes, a flexible learning environment and to be taught by lecturers who are experts in their field.

I wish you all the best with your studies.



**Rear Admiral James Goldrick, AM, CSC RAN**  
Commander, Australian Defence College

# Postgraduate Coursework Degrees

Postgraduate coursework programs at UNSW Canberra maintain currency and relevance in an ever-changing environment to meet the needs of Government, Industry and the business community. The courses within these programs blend a thorough understanding of the knowledge and skills necessary to master a particular discipline area with an appreciation of their practical applications for planning and activities. These programs have the flexibility to meet the individual needs of entry level students, advanced postgraduate scholars and professional officers seeking a robust academic framework to enhance their expertise and career prospects.

UNSW Canberra offers a range of coursework programs at postgraduate level. These programs are Arts, Business, Engineering (including Systems Engineering), Information Technology, Science and Project Management. Each program offers different specialisations. Provision exists in most programs to articulate through a graduate diploma/ masters sequence. The specialised plans within those degrees give students the opportunity either to focus on a particular area of the discipline or to acquire a more broadly based qualification.



Alternative modes of delivery are important to meeting student needs. Postgraduate programs at UNSW Canberra are offered in different modes: on campus, by distance and in the intensive mode.

For international postgraduate students, an important initiative has been the introduction of a distinct language stream within postgraduate course offerings to complement the existing academic skills program. Students with a limited background of studying in the English language and in the Australian educational environment now have the option (subject to the approval of the Program Authority and the conditions of their candidature) to study up to two courses covering analysis and writing for postgraduates as part of their degree structure. International students must still, of course, satisfy the University's English language requirements for admission.

The University utilises a variety of cutting edge technology to provide both distance and on-campus students with opportunities to remain connected with class mates and academic staff in a way that suits their needs. Assessment may include assignments, seminar presentations, informal or formal exams throughout or at the end of a semester/year.

As not all courses are available in each semester, full-time students may be restricted by course choice or course availability. Not all postgraduate coursework programs can always be completed on a full-time basis.

UNSW Canberra reserves the right to cancel courses for which there are insufficient enrolments (normally a minimum of six is required). Advice of cancellation would normally be given to students within the first week of teaching in a given semester.

## » Entry Requirements

### MASTERS PROGRAM (48 UOC)

#### **Duration: 1 year full-time or part-time equivalent**

The Masters level program is designed for postgraduate scholars and professionals with appropriate undergraduate qualifications in a discipline and/or extensive relevant professional experience, who wish to gain a more detailed understanding of the concepts and principles that underpin a particular field of study.

Masters students complete eight core and elective courses. Students who achieve at a high level in their initial coursework may apply to undertake a research project, equivalent to two courses, in an area of particular interest. Students may also be permitted to take up to two courses from related programs.

**Entry Requirement:** One of the following qualifications in the same or related discipline from a recognised institution:

- four-year pass degree or Honours degree;
- three-year pass degree with a major in a related field of study plus relevant full-time work experience;
- a graduate diploma; or
- other academic or professional qualifications considered equivalent by UNSW and a minimum three years of relevant work experience.

### GRADUATE DIPLOMA PROGRAM (36 UOC)

#### **Duration: 1 year full-time or part-time equivalent**

The Graduate Diploma is designed for postgraduate scholars and professional managers with undergraduate qualifications in a relevant discipline and/or appropriate professional experience, who wish to gain a more detailed understanding of the concepts and principles that underpin a particular discipline. The program provides knowledge and analytical skills relevant to the development of enhanced management practices.

Graduate Diploma students complete six core and elective courses, which provides a foundation for students wishing to proceed to more advanced study in the discipline. As part of their studies, students may be permitted to take one course from a related coursework program.

**Entry Requirement:** three-year degree or graduate certificate in the same or related discipline from a recognised institution or qualifications considered equivalent and related work experience.

### GRADUATE CERTIFICATE PROGRAM (24 UOC)

#### **Duration: 6 months full-time or part-time equivalent**

The Graduate Certificate allows students with the relevant academic or professional background to acquire a qualification for advanced study in a more specialised aspect of a discipline without the need to complete all the requirements of a Graduate Diploma or Masters degree. It is designed for students without relevant undergraduate qualifications or appropriate professional experience who are seeking a basic understanding of a particular field of study.

Graduate Certificate students complete four foundation courses which provide students with the opportunity to demonstrate a capacity to proceed to more advanced study in the discipline. Course selection for certificate programs is limited and applicants are advised to contact the relevant School or Student Administrative Services for details.

**Entry Requirement:** three-year degree from a recognised institution and/or academic or professional qualifications considered equivalent and/or related work experience. Please note that the Graduate Certificate level is a foundation level entry point for various disciplines. This qualification does not articulate with the Graduate Diploma or Masters. Students cannot use completed Graduate Certificate courses to gain credit towards the Graduate Diploma or Masters programs.

## » Delivery Modes

### On-campus:

Some of the courses offered at UNSW Canberra fall into the on-campus delivery mode. These are courses that are delivered primarily using face-to-face teaching and students are required to regularly attend classes at the University. Some courses may include an optional face-to-face workshop. Most lectures and seminars are held in the late afternoons or early evenings to accommodate part-time students.

### Distance:

Most courses that are delivered outside of the University using various forms of media including CD-ROM, printed material and the Internet are called 'Distance mode'. Some courses include an optional face-to-face workshop. Courses offered in Distance mode include:

- Arts
- Business
- Capability Management
- Engineering
- International Law and Security
- Information Technology
- Project Management
- Science
- Systems Engineering.

UNSW Canberra is not able to offer full-time attendance with on-campus courses, so international students wishing to undertake postgraduate coursework programs are not permitted to attend the UNSW Canberra campus but can study in their home country by enrolling in Distance mode courses.

### Intensive Delivery:

These are courses that are delivered using a variety of media including CD-ROM, printed material and the Internet. The student must attend the University for a period of face-to-face instruction usually in the form of one full-time week, typically in single day or split sessions, often preceded and followed by a period of online interaction.

## » Programs

### Arts

**Graduate Diploma** Program Code 5855

**Masters** Program Code 8175

The Arts program provides students with the opportunity to acquire high-level understanding and advanced analytical skills in key areas of social sciences and humanities disciplines. Students can combine courses from history and political science to build expertise in one of the specialisations, and can add new dimensions to their careers, especially in policy-related areas.

The program has particular relevance for those wishing to understand the complexities of strategic developments in the new millennium. It meets the needs of advanced scholars seeking to master the principal concepts and issues affecting strategic and international security studies and to understand their practical planning implications. For defence professionals, it offers the opportunity to broaden their knowledge of the policy and security environment in which they are working and to develop a comprehensive set of skills for analysing that environment and developing policy options.

### Specialisations include:

#### Military History

The Military History specialisation is designed for postgraduate scholars who wish to gain a comprehensive understanding of the major themes and issues in the field of military history, and to cater for those with a professional need (such as secondary history teachers responding to some of the demands of the new national curriculum), members of the Australian Defence Force, and interested members of the general public.

#### Strategy and Security

The Strategy and Security specialisation is designed for postgraduate scholars, and foreign affairs, security and defence professionals who wish to gain a deeper and more advanced understanding of the factors shaping the global and Asia-Pacific security and strategic environments, and the complex policy challenges presented by the new security agenda. These include: managing 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 armed forces.

## Strategy and Management

The Strategy and Management specialisation is designed for postgraduate scholars and public policy professionals who wish to gain a more detailed understanding of factors shaping the contemporary strategic environment and complex policy challenges. Students are required to undertake a balanced set of courses drawing together strategic and policy insights offered by the School of Humanities and Social Sciences with core management skills offered by the School of Business. The courses have been selected to develop an appropriate breadth of expertise in each disciplinary area.

## Business

**Graduate Certificate** Program Code 7366

**Graduate Diploma** Program Code 5377

**Masters** Program Code 8388

The Master of Business is designed for postgraduate scholars and professional managers with appropriate undergraduate qualifications in management or a related discipline and/or extensive relevant professional experience wishing to gain a more advanced understanding of the concepts and principles that underpin effective management, business decision making and leadership in organisations. It provides comprehensive insights and analytical skills relevant to the development of enhanced management and leadership practices and a conceptual foundation for lifelong learning as a professional manager. Students have the flexibility to construct a broad based business degree or alternatively are able to specialise in an area of business by enrolling in concentrations of related courses. The degree is aimed at managers who are seeking a business education to deepen their understanding of business principles and practices as part of their career development.

The Graduate Diploma in Business is designed for postgraduate scholars and professional managers with undergraduate qualifications in a relevant discipline and/or appropriate professional experience wishing to gain a more advanced understanding of the concepts and principles that underpin effective management, business decision making and leadership in organisations. The program provides knowledge and analytical skills relevant to enhanced management and leadership practices. The compulsory core provides a broad understanding of key areas of management and leadership in organisations. The Graduate Diploma serves as an articulation pathway for students wishing to complete a Masters in Business.

## Capability Management\*

**Masters** Program Code 8399

Capability development and management in large organisations, such as Defence involves significant capital expenditure and includes the scanning and identification of technologies, equipment and systems, technology development, contracting and acquisition, and organisational change. Strong managerial and technical skills and expertise are required to manage this systems capability life cycle effectively. Capability development is also a technical and management challenge for non-Defence organisations.

The Capability Management program addresses this challenge and is directed toward developing a thorough understanding of the managerial and technical skills and expertise relevant to planning and acquisition of complex technology and systems. Its primary, but not exclusive, focus is in the area of Defence. This is a cross disciplinary postgraduate program for managers and professionals working in this field. It brings together an engineering perspective in system design and project management and a management perspective in strategy and process management.

The importance of skills in capability management stretch across the Defence portfolio, including the Defence Materiel Organisation (DMO), the Capability Development Group (CDG) and the Chief Information Officer Group (CIOG), as well as defence industry organisations. The breadth of the program will also make it attractive for other large organisations including Australian Government agencies.

The program aims to develop a thorough understanding of the skills and expertise relevant to planning and acquisition of complex technology and systems. This can be targeted, by appropriate selection of courses, toward complex military systems and procurement of defence materiel, but the program structure also allows the development of abilities relating more generally to capability development and organisational change.

\*subject to UNSW Academic Board approval for 2012 delivery

## Engineering Science

**Graduate Certificate** Program Code 7387

**Graduate Diploma** Program Code 5889

**Masters** Program Code 8569

The Engineering Science program offers students the opportunity to pursue graduate level study in the traditional engineering discipline areas. Studies can be taken at Graduate Certificate (Electrical, Marine and Rotorcraft Engineering only), Graduate Diploma or Masters levels. In addition to a broad range of technical and professional engineering courses, there is the opportunity for students to blend that specialist expertise with related courses in the Science and Business programs.

The Engineering Science program is divided into the following specialisations:

### Aerospace Engineering

This specialisation has been developed specifically to meet the professional development needs of aerospace engineers within the Australian Defence Force (ADF). It is designed for officers with appropriate undergraduate qualifications in a relevant engineering discipline and/or extensive professional experience to develop an advanced appreciation of the principles and practice of aerospace engineering and the processes by which aerospace capabilities are developed and maintained.

### Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance and Electronic Warfare (C4ISREW)

This specialisation has a strong concentration on electronics and includes compulsory subject material that fundamentally underpins the subject area combined with a range of electives from the discipline area to tailor a program towards a student's future career interests. It includes subject material from C31 systems and information operations, computer security and cryptography, multimedia and virtual environments, digital video communications, image processing, satellite communications and decision analysis. The specialisation is particularly relevant to Defence.

## Data Communications

The Data Communications specialisation, at Graduate Diploma and Masters levels, offers students the opportunity to gain high-level skills in the area of Data Communications. Students take compulsory core subject material that underpins the discipline and a range of electives tailored towards their future career interests.

### Electrical Engineering

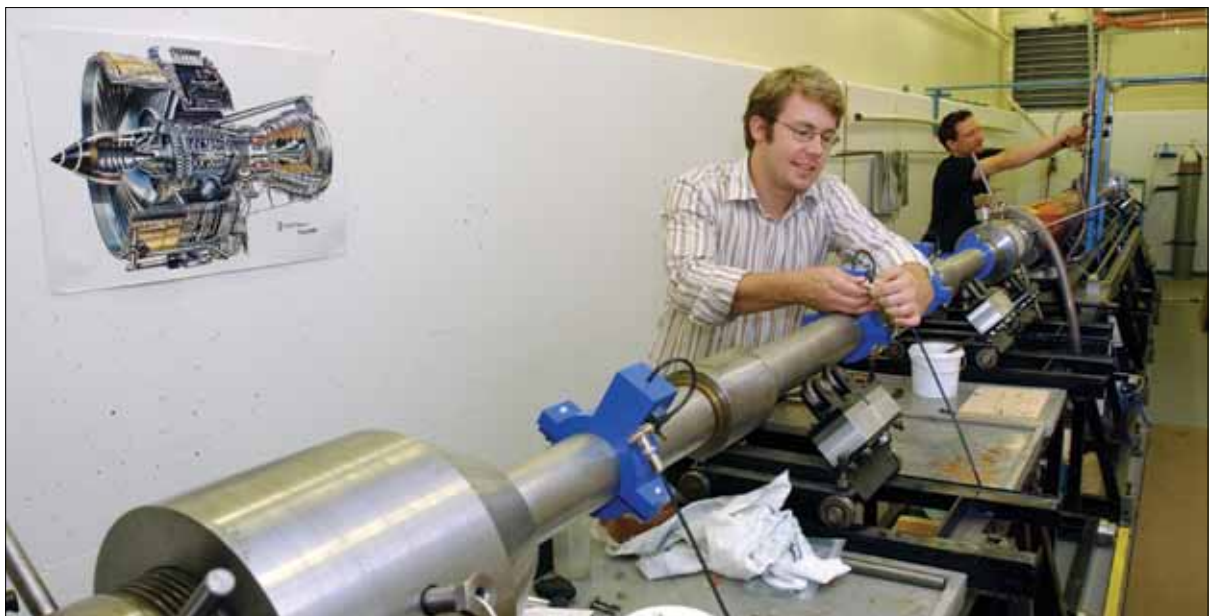
This specialisation meets the needs of postgraduate scholars and professional officers with appropriate undergraduate qualifications in a relevant engineering discipline and/or extensive professional experience seeking to develop an advanced appreciation of the principles of electrical engineering and their professional application. The Electrical Engineering specialisation includes a range of courses covering communications and surveillance, signal processing, image processing and engineering systems.

### Marine Engineering [GradCert only]

The Marine Engineering specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practices of Marine Engineering and to strengthen their skills in this area.

### Rotorcraft Engineering [GradCert only]

The Rotorcraft Engineering specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practices of Rotorcraft Engineering and to strengthen their skills in this area.



## International Law and Security\*\*

**Graduate Diploma** Program Code 5281

**Masters** Program Code 8281

This is a joint program offered by the Faculty of Law at UNSW in Sydney and the School of Humanities and Social Sciences at UNSW Canberra.

The program provides an interdisciplinary study program that meets the developmental requirements of students interested in careers in international law and international security. Students will acquire an advanced level of knowledge and analytical ability in relation to the issues, problems and conduct of international law and national and global security and the areas of interaction between the two disciplines. The program provides a depth of study and research opportunities in respect of the interrelationship between international law, security and strategy. The program provides students with a strong theoretical and practical understanding of the international legal system, the factors shaping the global and Asia-Pacific security and strategic environments, and the complex policy challenges presented by the new security agenda. Not all courses are necessarily available in any one year.

The objectives of this program are to provide an interdisciplinary study program that meets the developmental requirements of students interested in careers in international law and security and defence/strategic studies; to impart an advanced level of knowledge and analytical ability in relation to the issues, problems and conduct of international law and security studies and the areas of interaction between the two disciplines; to provide depth of study and research opportunities in respect of the interrelationship between international law and security studies; and to provide students with a strong theoretical and practical understanding of the international legal system, the global security context, contemporary security and military strategy and legal and moral issues relating to international violence and the use of force.

\*\* Subject to UNSW Academic Board approval for 2012 delivery. The program authority for this degree is the UNSW Faculty of Law, so for further information refer to the Faculty of Law entries of the UNSW Handbook for further information. See [www.handbook.unsw.edu.au](http://www.handbook.unsw.edu.au)

## Project Management

**Graduate Diploma** Program Code 5595

**Masters** Program Code 8595

The objective of this program is to provide a comprehensive postgraduate education for students in the discipline of Project Management. The program is designed for postgraduate scholars with appropriate undergraduate qualifications in a relevant discipline and/or extensive professional experience who wish to develop a higher level understanding of the principles and practices of project management and to strengthen their skills in this area.

The Project Management program provides students with the opportunity to acquire an understanding and advanced analytical skills in the key areas required to manage the components of a project including: integration, scope, communications, risk, quality, schedule, budget, human resources, and procurement. It identifies the key components of project management in different organisational environments and examines the roles and responsibilities of project managers. Students are introduced to a range of project management tools and procedures.

## Science

**Graduate Certificate** Program Code 7382

**Graduate Diploma** Program Code 5882

**Masters** Program Code 8562

The Science program provides students with the opportunity to acquire high-level understanding and advanced analytical and professional skills in key areas of the science disciplines. There is a significant emphasis on integrating the various disciplinary approaches that can be applied to particular discipline areas and on students acquiring both the concepts which underpin an area of scientific enquiry and an understanding of how it is translated into practical applications.

The specialisations available draw upon the strengths of the University's current postgraduate coursework programs in Science. These include:

### Defence Operations Research

The Defence Operations Research specialisation provides a comprehensive understanding of decision making, analysis and operations research techniques relevant to researchers in the Defence sector. Enrolment in this specialisation is only available to participants in Defence Science and Technology Organisation's (DSTO) Continuing Education Initiative.

## Information Technology

The Information Technology specialisation offers both a comprehensive understanding of the information technology discipline together with the ability to explore specific areas in considerable depth. It is structured to provide the foundation for more advanced postgraduate study as well as to enhance the insights and skills of professional officers in the IT community. Students have the flexibility to tailor their program to meet individual needs. A number of courses within the IT program have specific relevance to Defence.

## Operations Research and Statistics

The Operations Research and Statistics specialisation encompasses the analytical, modelling and statistical concepts and skills necessary for undertaking advanced operations research or statistical analysis in a range of professional environments, including Defence. The courses cover decision making, problem solving and analysis, modelling and the quantitative skills necessary to inform analysis and underpin its conclusions.

## Operations Research and Systems

The Operations Research and Systems specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practice of the scientific approach for decision making. The specialisation will strengthen their skills in system thinking, analysis, modelling, problem solving and decision making. Its consideration of a wide range of analytical techniques and systemic approaches to decision making, makes it suitable to both the professional working in the field as well as the student wishing to develop or employ those skills in higher level research.

**Note:** Not all courses in the Science programs are available each year. Prospective students are advised to contact Student Administrative Services for course availability.

## Systems Engineering

**Graduate Diploma** Program Code 5867

**Masters** Program Code 8567

The Systems Engineering program is designed for postgraduate scholars with appropriate undergraduate qualifications in a relevant engineering discipline and/or extensive professional experience who wish to develop a high level understanding of the principles and practices of systems engineering and to strengthen their skills in this area.

Students will be able to acquire a high level understanding and advanced analytical skills in the key areas of systems engineering, requirements engineering, test and evaluation, project management, and logistics. Coverage of courses in this program spans the engineering disciplines and the management of projects frequently incorporating those engineering disciplines.

There is strong emphasis on extending undergraduate skills and knowledge and vocational experiences to enable graduates to apply their high level understanding to complex real-world systems engineering problems. The program aims to allow students to develop a high level understanding of the principles that shape systems engineering and their implementation through the design, development and application phases. Entry to the program is available to those with an engineering, science or humanities background. Entry is also available to applicants without a first degree providing they have acceptable academic and/or professional qualifications and/or related work experience.

Students can elect to undertake a generic Systems Engineering specialisation by choosing courses from a broad range of technical and professional systems engineering courses. or there is the opportunity for students to blend related courses into specialist areas, such as:

### Electronic Warfare

The Electronic Warfare specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practices of electronic warfare and to strengthen their skills in this area.

### Marine Engineering

The Marine Engineering specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practices of marine engineering and to strengthen their skills in this area.

### Networking

The Networking specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practices of IT networks and to strengthen their skills in this area.

### Space Systems

The Space Systems specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practices of space systems and to strengthen their skills in this area.

### Test and Evaluation

The Test and Evaluation specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practices of Test and Evaluation and to strengthen their skills in this area.

### Weapons and Ordnance

The Weapons and Ordnance specialisation is designed for postgraduate scholars who wish to develop a high level understanding of the principles and practices of weapons and ordnance and to strengthen their skills in this area. Approval from the Head of School is required to take up this specialisation.

# Postgraduate Research Programs

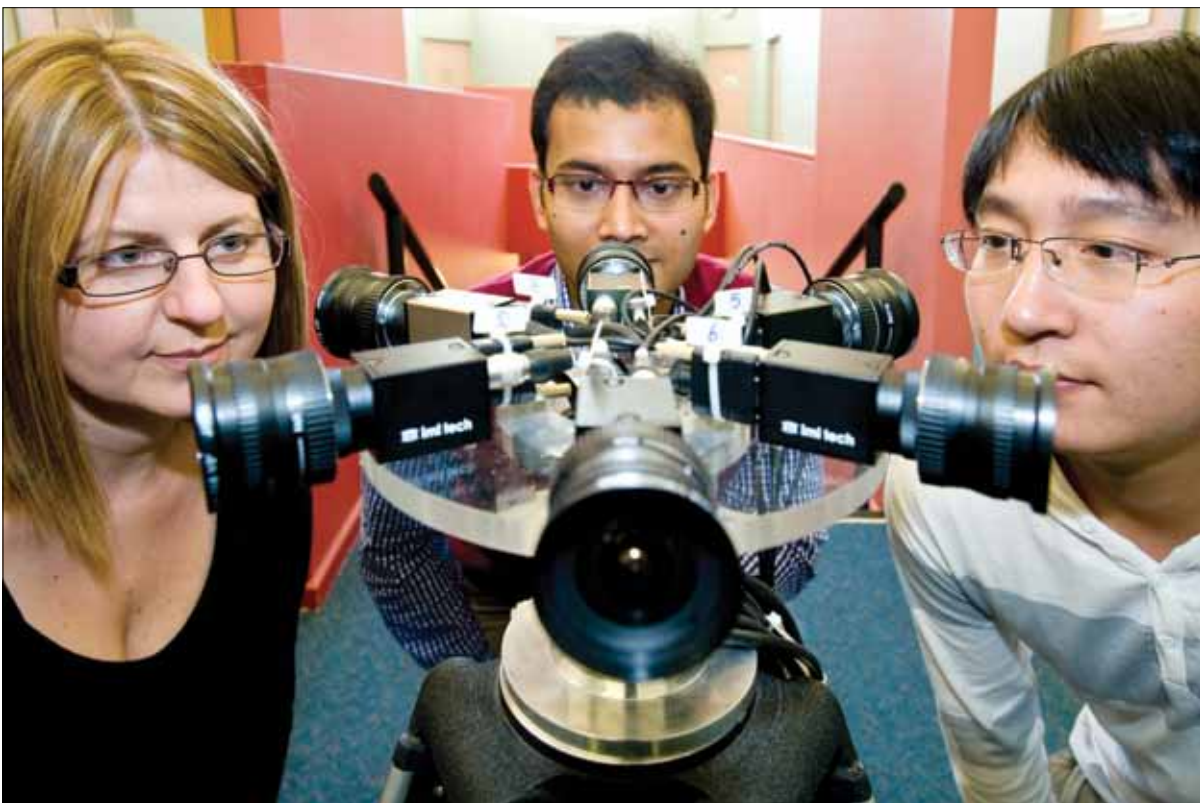
UNSW Canberra is a significant research institution which offers a supportive and stimulating environment for postgraduate research. It has a wide range of postgraduate research programs open to eligible students and particularly welcomes international students. Academic staff work closely with industry, commerce and public research bodies in Australia and overseas to ensure that programs remain current and relevant.

Research degrees require the preparation and submission of a thesis embodying the results of an original investigation or design or, in the case of the Masters by research, a combination of research and coursework or research only. Research programs are available at PhD and Masters level with provision, under certain circumstances, for transfer between the two.

In 2011, UNSW Canberra had more than 400 staff and students on campus engaged in research: 170 academic staff, supported by 30 specialist research staff and some 300 research students. Research at UNSW Canberra is recognised by its publications output and the significant external research funding attracted each year.

Research degree programs can be undertaken in all four Schools. Information about School research interests and possible supervisors is available from individual School web pages and the UNSW postgraduate webpage:

**[www.grs.unsw.edu.au/futurestudents/find](http://www.grs.unsw.edu.au/futurestudents/find)**



## AWARDS

**Doctor of Philosophy (PhD)** – typical duration 3-4 years

All disciplines

**Doctor of Project Management (DProjMgt)** – typical duration 3-4 years

**Doctor of Systems Engineering (DSysEng)** – typical duration 3-4 years

**Master of Philosophy (MPhil)** – typical duration 1.5-2 years  
All disciplines

**Master of Engineering (ME)** – typical duration 1.5-2 years

- Aerospace Engineering
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

**Master of Science (MSc)** – typical duration 1.5-2 years

- Chemistry
- Computer Science
- Geography
- Mathematics
- Oceanography
- Physics

**Master of Arts (MA)** – typical duration 1.5-2 years

- English
- Ethics
- History
- Indonesian Studies
- Politics.

## » Eligibility

To be eligible for admission to a program of postgraduate research study, an applicant is normally required to have completed an appropriate undergraduate degree from a recognised institution. In certain programs other qualifications or relevant professional experience are considered in determining the level of entry. Candidates who do not meet the direct entry requirements at the Masters by Research or PhD level may be able to undertake a fee-liable qualifying program. In some schools, research students enter at Masters level and may be transferred after 12 months' progress if their research is of the required standard and the topic appropriate.

## » Current and Emerging Research Themes

- Advanced materials science
- Astrophysics and optics
- Bioinformatics
- Complex adaptive systems
- Control Theory
- Defence and security applications
- Defence and strategic studies
- Economics of travel for business and pleasure
- English
- Environmental modelling and engineering
- Ethics
- Human resource management
- Hypersonics
- Image and video processing
- Intelligent Systems
- Knowledge transfer and innovation
- Labour economics
- Land economics
- Leadership and management
- Military History
- Photonic quantum information technologies
- Risk analysis
- Uninhabited aerial vehicles and control

## » Programs

### Doctor of Philosophy (PhD)

**Typical duration: 3-4 years full-time equivalent**

The Doctoral degree is formal recognition of successful research experience. The candidate must make a distinct and original contribution to knowledge. Considerably more original work is required for a Doctorate than for a Masters by research degree. The nature and level of supervision will evolve over the duration of the candidature. The work will be more closely supervised in the early stages. In the later stages, however, the candidate must be allowed increasing scope to exercise initiatives and demonstrate originality.

In the latter part of the program the candidate should be able to work alone and be guided rather than directed by the supervisor. The degree of Doctor of Philosophy requires a minimum of three years full-time study and preparation of a thesis.

## Doctor of Project Management (DProjMgt)

### Typical duration: 3-4 years full-time equivalent

The Doctor of Project Management degree provides an opportunity to combine a doctoral thesis with the coursework component of a Master of Project Management degree. The degree consists of one-third coursework (equivalent to one year full-time) and two-thirds research (equivalent to two years full-time) which may be in an area encountered by the student while undertaking coursework. The program is intended to prepare candidates for the highest level of professional practice, in which they can contribute significantly to the development of the discipline of Project Management.

High-level professional practice in the field of project management involves the continuous improvement of the associated body of knowledge in order to manage the ever-increasing complexity of systems and projects. This extension requires significant experience and a mastery of the professional body of knowledge, underpinned by strong research skills.

In this program, mastery of the professional body of knowledge is achieved in the coursework component, which builds on prior education and the experience gained through professional practice. Based on this mastery of the professional body of knowledge, the thesis component of the program develops the research skills necessary for an experienced practitioner to be able to make a significant contribution to the continuous improvement of their discipline's professional practice.

## Doctor of Systems Engineering (DSysEng)

### Typical duration: 3-4 years full-time equivalent

The Doctor of Systems Engineering degree provides an opportunity to combine a doctoral thesis with the coursework component of a Master of Systems Engineering degree. The degree consists of one-third coursework (equivalent to one year full-time) and two-thirds research (equivalent to two years full-time) which may be in an area encountered by the student while undertaking coursework. The program is intended to prepare candidates for the highest level of professional practice, in which they can contribute significantly to the development of the discipline of Systems Engineering. High level professional practice in the field of systems engineering involves the continuous improvement of the associated body of knowledge in order to manage the ever-increasing complexity of systems and projects. This extension requires significant experience and a mastery of the professional body of knowledge, underpinned by strong research skills. In this program, mastery of the professional body of knowledge is achieved in the coursework component, which builds on prior education and the experience gained through professional practice. Based on this mastery of the professional body of knowledge, the thesis component of the program develops the research skills necessary for an experienced practitioner to be able to make a significant contribution to the continuous improvement of their discipline's professional practice.

## MASTERS by RESEARCH

**Master of Arts (MA)** – typical duration: 1.5-2 years full-time equivalent

**Master of Engineering (ME)** – typical duration: 1.5-2 years full-time equivalent

**Master of Science (MSc)** – typical duration: 1.5-2 years full-time equivalent

These programs are designed primarily as training in a program of advanced study and research. The candidate learns the fundamentals of research and acquires new knowledge. The program may include formal coursework which is normally intended to prepare the candidate for work on the thesis. The candidate must undertake an original investigation but this would normally be more limited in scope and degree of originality than is required for a doctorate. Although originality is to be encouraged as much as possible, the work will be closely supervised in the early literature review stage and whenever analysis and critical thinking is being used.

## Master of Philosophy (MPhil)

### Typical duration: 1.5-2 years full-time equivalent

The Master of Philosophy is a research degree with an examinable coursework component, with a minimum of three semesters of full-time equivalent study. It comprises a thesis that embodies the result of an original investigation, design or engineering development and a program of advanced coursework that makes up the remainder of the program. The coursework component will normally comprise of four courses selected from the Coursework Masters offerings for the relevant discipline.

If candidates have already completed a coursework Masters in a related area they may be eligible to apply for credit for the coursework component. This could mean that candidates would only need to submit a research thesis, in which case candidates could complete the M Phil in 12 months full-time study or the part-time equivalent.

Before enrolment you should submit an intended program for approval by the School controlling the research discipline for the degree. The School will ensure that the coursework component is relevant to, or complements, the research component, and that the candidate satisfies pre-requisite requirements for the study.

## COMBINED COURSEWORK/RESEARCH PROGRAMS

### Combined Masters/Master of Philosophy

**Master of Arts/M Phil (8691)**

**Master of Defence Studies / M Phil (8692)**

**Master of Engineering Science / M Phil (8693)**

**Master of Science / M Phil (8694)**

**Master of Management Studies / M Phil (8695)**

The Combined Master of Philosophy has a research thesis component with an examinable coursework component, taken over three sessions. It comprises a thesis that embodies the result of an original investigation, design or engineering development and a program of advanced coursework that makes up the remainder of the program. The coursework component will normally comprise of four courses selected from the Coursework Masters offerings for the relevant discipline.

Before enrolment an applicant should submit an intended research proposal for approval by the School overseeing the research discipline for the degree. The School will ensure that the coursework component is relevant to, or complements, the research component, and that the candidate satisfies pre-requisite requirements for study.

## PROFESSIONAL DOCTORATE

### Doctor of Information Technology (DIT) (9920)

**Typical duration: 3 years full-time equivalent**

The DIT degree provides an opportunity to combine a doctoral thesis with the coursework component of an IT-related Master of Science. It allows research into an area of interest developed within the coursework component leading to a significant contribution to professional practice in information technology.

The degree consists of one half coursework, which is equivalent to three semesters full-time, and one half research, again equivalent to three semesters full-time. The research component may be taken in an area encountered by the student while undertaking coursework. The coursework component of the degree begins with enrolment in an IT-related Master of Science. All coursework must be completed before the commencement of the dissertation.

Entry into the DIT requires a Bachelor with Honours degree or a Master by coursework from a recognised institution, or equivalent qualification. In addition, a candidate shall have a minimum of three years of relevant professional experience.



## » Scholarships

A range of scholarships is available to support research degree candidates which cover fees only, stipend only, or, in certain cases, fees and stipend. A 'stipend' is paid in the form of a living allowance and cannot be converted to fee payment other than by personal savings. Further information about these and other scholarships are available from <http://research.unsw.adfa.edu.au/rcto/scholarships/>

### **Australian Postgraduate Award (APA) (Stipend based)**

The APA is available to Australian citizens or to Permanent Residents who have lived continuously in Australia during the 12 months preceding the application closing date. Scholarships are awarded on the basis of academic excellence and research potential and are awarded for full-time research study. Applications close on 31 April and 31 October each year. Applicants for APA are automatically considered for UCPRS (see below).

### **International Postgraduate Research Scholarship (IPRS)**

International students (except New Zealand citizens) are eligible to apply for this scholarship which provides cost of tuition fees, visa processing charges, and Overseas Student Health Cover for the student and their dependents. In addition the University of New South Wales provides a living allowance for each year of the IPRS. Scholarships are awarded for three years to undertake a PhD and two years to undertake a Masters degree, subject to satisfactory progress. Applications close in April and August each year. Applicants for IPRS are automatically considered for UCPRS.

### **University College Postgraduate Research Scholarship (UCPRS) (Stipend based)**

These scholarships are awarded on the basis of academic excellence with emphasis on the undergraduate degree and referees' reports and are for full-time research study. Scholarships are for three years for a PhD and two years for a Masters degree, subject to satisfactory progress. There is no application process for UCPRS. Applicants wishing to study at UNSW Canberra and who apply for a UNSW International Scholarship (IPRS) or UNSW Local Research Scholarship (APA) are automatically considered for this scholarship. International students that are offered a UCPRS are supported by a Tuition Fee Scholarship provided by Schools to cover tuition fees & OSHC.

### **Equity Scholarship (Stipend based)**

These scholarships are awarded to female students in a non traditional area of study at the UCPRS rate. Applicants for APA, IPRS or UCPRS are automatically considered for this scholarship.

### **Top-up Scholarship**

This scholarship is available to all students who are awarded an Australia Postgraduate Award (APA) or International Postgraduate Research Scholarship (IPRS) tenable at UNSW Canberra. UNSW Canberra supplements the APA and IPRS level by an additional amount to bring these scholarships to the current year level of the UCPRS.

### **Establishment Scholarships for Commencing Research Scholarship Students**

An Establishment Scholarship of \$1,000 will be provided to commencing higher degree research scholarship students at the beginning of their candidature at UNSW Canberra.

### **Australian Development Scholarship (ADS)**

The award may be available to postgraduate students. Only students from certain countries can apply.

The conditions governing the scheme are developed by the home country and the Australian Government. Eligibility for ADS is determined by a number of factors, including the level and field of study. The type of assistance available also varies from country to country. The award for some students will only cover the cost of fees; however, others cover the cost of fees, the cost of the airfare to Australia and a living allowance. Applications and further information may be obtained from the Australian Diplomatic Mission or the Australian Education Centre in your home country.

# School Details

## » School of Business (BUS)

Disciplines driving research in the School of Business include economics, organisational behaviour, psychology, accounting and finance, ethics and law.

Research in economics relates to the international mobility of highly skilled labour and knowledge workers, tacit knowledge and its implications for competitiveness, tourism and choice modelling.

Interdisciplinary work analyses technical standards and innovation.

Defence industry policy, procurement and capability formation comprise another focus for research in economics, finance and law and also extends to the history of Army financial management, logistics support and project management.

The School of Business has an active research program analysing leadership in organisations, uniquely Australian leadership styles, leadership development and the contribution of leadership to competitive performance.

Psychology underpins work on risky behaviour, particularly drugs in sport, and there is a growing interest in research into educational methods in Australia and Asia.

**Enquiries: +61 (2) 6268 8074**

**Email: [bus.studentadmin@adfa.edu.au](mailto:bus.studentadmin@adfa.edu.au)**

**<http://bus.unsw.adfa.edu.au>**



## » School of Humanities and Social Sciences (HASS)

Course options available through the School of HASS are diverse and relate to English, History, Indonesian, Politics, and Ethics.

Research in the English program covers a range of topics including Australian literature; literary history; biography; scholarly editing and theory; the electronic revolution in publishing; film studies; Asian-Australian literary links; American studies; British and European literary traditions and influences.

The School is a major player in managing biographical and bibliographical research in AustLit: The Resource for Australian Literature which has been operating as a networked digital research environment since 2001. AustLit is building web accessible content relating to many aspects of Australia's literary history, while working towards a comprehensive bibliographic record of the nation's literature.

Members of the History program carry out research in areas that are often defence related. Published works include the history of the two world wars, the Korean War and later conflicts, as well as a multi-volume study of the history of Australia's Department of Defence. Other research areas include: naval history; Russian and Soviet history; German history and general British history. The History program has edited the international peer-reviewed journal *War and Society* since 1983.

The current research interests of the Indonesian program in the School of HASS relate to the following areas: anthropological perspectives on regionalism, local political movements, ethnic identity and national integration in post-Suharto Indonesia; Islam and pan-Malay identity in Southeast Asia; Indonesian discourses of modernity in the pre-WWII period; Boven Digoel: a Dutch colonial concentration camp; contexts, styles and discourses of representation in contemporary Indonesian media, art and literature; radio journalism in post-Suharto Indonesia, and Indonesian applied linguistics.

The School's Politics program is one of the most active and high-profile of its type in Australasia. Staff have a wide range of research interests in strategic studies, ethics, defence policy, international relations, Japanese politics, global democracy, the politics of the Asia-Pacific region, and non-traditional security issues.

The School's Ethics staff specialise in research in applied ethics and professional roles. This includes a large number of publications in a number of fields in this area, including military ethics, police ethics, biomedical and social work ethics, ethical issues arising in computing and the use of the Internet, and the understanding and implementing of integrity systems across a broad range of professions.

**Enquiries: +61 (2) 6268 8867**  
**Email: [hasspgcoursework@adfa.edu.au](mailto:hasspgcoursework@adfa.edu.au)**  
**Email: [hasspgresearch@adfa.edu.au](mailto:hasspgresearch@adfa.edu.au)**  
**<http://hass.unsw.adfa.edu.au>**

## » School of Engineering and Information Technology (SEIT)

The school offers a comprehensive range of studies in engineering and information technology disciplines. The focus of these offerings is on the leading-edge of developments, grounded in the experience of practical applications. Our facilities reflect this interest and provide unparalleled opportunity to conduct significant study and research in aeronautical, civil, electrical and mechanical engineering or computer science, information systems and operations research.

The school is a recognised world-leader in several of the engineering disciplines and has on staff several internationally-recognised and respected senior academics in all of its disciplines. Our current research areas include: acoustics and vibration; blast engineering; engineering management; environmental engineering; flight; supersonics and hypersonics; unmanned aerial vehicles; control and control theory; complex adaptive systems; image coding; quantum electronics; decision support through modelling and simulation; ICT governance and enterprise architecture; computer networks and distributed systems; and cybersecurity.

**Enquiries: +61 (2) 6268 8580**  
**Email: [seit@adfa.edu.au](mailto:seit@adfa.edu.au)**  
**<http://seit.unsw.adfa.edu.au>**



## » School of Physical, Environmental & Mathematical Sciences (PEMS)

The school of PEMS offers cutting-edge multi-disciplinary research that develops creativity, problem-solving and critical thinking in areas relating to Chemistry, Geography, Mathematics and Statistics, Oceanography and Physics.

Both domestic and international postgraduate students come from a variety of backgrounds and are well-supported by more than 42 academic staff.

Collaboration with international and other Australian institutions features throughout many of the research activities of the School. Current research topics include: advanced materials; applied mathematical modelling; astronomy and astrophysics; biological chemistry; bushfires and combustion; chemical physics and physical chemistry; environmental systems; geographic information science; lower atmosphere research; optics and photonics; physical oceanography; science education; society and space; and statistics.

Apart from access to quality computing services, research facilities include acoustic and electromagnet wind profilers, infra-red spectrometers, low temperature refrigerators, magnetometers, a materials preparation and characterisation laboratory, Mössbauer Spectrometers, a radiochemistry laboratory, a radioisotope implanter, research vessels for inshore work, a vibration testing facility and video imaging equipment.

Students are also encouraged to make use of access to larger testing facilities around Australia.

**Enquiries: +61 (2) 6268 8801**

**Email: [pgrcoord.pems@adfa.edu.au](mailto:pgrcoord.pems@adfa.edu.au)**

**<http://pems.unsw.adfa.edu.au>**



# How to Apply

## » Application Process

### ONLINE APPLICATION

Applicants wishing to gain entry to a postgraduate (coursework or research) program should apply online via the University web portal called myUNSW <http://my.unsw.edu.au>. The online application for UNSW Canberra programs is free of charge and will take approximately 15 minutes to complete.

If you try to apply after the closing date you will not be able to submit an online application. If this occurs you should contact Student Administrative Services at UNSW Canberra to access a paper-based application form.

**Student Administrative Services**  
**Administration Building 1, Level 2**  
**Northcott Dr Canberra ACT 2600**  
**Telephone: +61 (2) 6268 6000**  
**Email: [sas@adfa.edu.au](mailto:sas@adfa.edu.au)**  
**<http://sas.unsw.adfa.edu.au/>**

### CLOSING DATES

Closing dates for applications for admission to postgraduate programs at UNSW Canberra are:

- **20 January** for all admissions in Semester 1 (March commencement)
- **20 June** for postgraduate **coursework** admission in Semester 2 (July commencement)
- **20 May** for postgraduate **research** admission in Semester 2 (July commencement)

### ACADEMIC QUALIFICATIONS

As part of your application you must include certified copies of any formal academic qualifications that you may have including previous tertiary (TAFE or University) or Australian Qualifications Framework (AQF) accredited awards.

### CREDIT FOR PREVIOUS STUDY

If you have previously completed tertiary studies at postgraduate level you may be eligible to gain credit towards your degree at UNSW Canberra. Credit may be awarded for complete or incomplete degrees from any recognised tertiary institution. Credit for previous study will only be assessed following admission to a degree program.

If you have completed approved professional education short courses as part of your career development, you may be able to use these courses as credit towards postgraduate study at UNSW Canberra. If you have completed twelve days worth of approved short courses you may only need to complete an essay exploring issues related to the professional practice of a relevant discipline to gain six units of credit towards a Masters degree.

## » International Students and English Language Proficiency

Over 290 international students are currently enrolled in non-award, postgraduate coursework and research programs. These students include both sponsored military personnel and self-funded civilians.

UNSW Canberra is not able to offer full-time attendance with on-campus courses, so international students wishing to undertake postgraduate coursework programs are not permitted to attend the UNSW Canberra campus but can study in their home country by enrolling in Distance mode courses.

International students wishing to undertake postgraduate research programs are permitted to attend the UNSW Canberra campus for the duration of their program.

English language requirements at UNSW Canberra are set by The University of New South Wales. It is important that all intending students are sufficiently skilled in reading, writing, listening and speaking in English. One of the main reasons for failure or for lack of progress is due to English language inadequacy, particularly in coursework programs where lecturing, seminars and tutorials are the major modes of delivery and learning.

Applicants who have not undertaken secondary schooling or completed a degree or diploma where English was the primary language of instruction are required to provide proof of their competency in English by presenting acceptable results from a recognised testing centre, taken within the previous two year period.

Further information regarding English Language Proficiency is available online at:

<http://sas.unsw.adfa.edu.au/international>

Contact Details:

**Student Administrative Services (SAS)**

**Email: [sas@adfa.edu.au](mailto:sas@adfa.edu.au)**

**Telephone: +61 (2) 6268 6000**

**Facsimilie: +61 (2) 6268 8666**

## » Fees and Charges

### LOCAL STUDENTS

Local students (i.e. Australian citizens, Australian permanent residents and New Zealand citizens) pay up-front program fees at the start of each semester of study for postgraduate coursework programs, unless exemptions apply.

Fees do not apply to research programs but do apply for research qualifying programs.

Fee-Help is an income contingent loan facility for fee paying students to pay postgraduate fees. Further information can be obtained from [www.goingtouni.gov.au](http://www.goingtouni.gov.au)

**Australian Defence Organisation** employees can submit an application to their DASS/Studybank Manager if they wish to be considered for a Defence-funded place at UNSW Canberra. Further information on Defence-funding arrangements can be obtained from <http://sas.unsw.adfa.edu.au/fees/>

### INTERNATIONAL STUDENTS

International students are also liable for up-front program fees (payable at the start of each semester of study) for all programs of study. International students on admission to a program must pay a deposit of \$4,000 to secure their place in that program and, if applicable, to be issued with a confirmation of enrolment for a student visa. The deposit forms initial payment against first semester enrolment and the balance of the semester fees is payable soon after enrolment upon receipt of a fee notice. In addition, international students are required to send the initial payment for Overseas Student Health Cover. International students already in Australia must pay the fee (and the health cover if applicable) before they enrol. Evidence of a current student visa or eligibility is required in all cases.

### FURTHER INFORMATION

A current schedule of local and international fees is available online at: <https://my.unsw.edu.au/student/fees/FeesMainPage.html>

## » Refund Policy

### LOCAL FEES

If, after enrolment and before the end of the fourth week of the student's commencing semester, a student withdraws from all courses and lodges a notice of discontinuation of a program, a refund of all tuition fees paid, less \$500, will be made.

A student will incur and retain a liability for payment of \$500, regardless of whether fees have been paid if the student has accepted the offer of a place and enrolled.

### INTERNATIONAL FEES

Applicants who notify UNSW Canberra in writing before enrolment that they wish to withdraw their candidature will receive a refund of all fees paid less an administrative charge. Students who withdraw within the first four weeks of their program will receive a refund of all fees paid less a \$1,000 administrative charge. After the four week period the student forgoes the right of refund for that semester. Under certain circumstances the full amount may be refunded.

## » Defence-Funded Postgraduate Study for members of the Australian Defence Organisation

If you are a staff member of the Australian Defence Organisation, you may be entitled to study free of charge as a postgraduate student at UNSW Canberra. UNSW Canberra is committed to developing the skills of military and civilian members of the Australian Defence Organisation and this includes the provision of Defence-funded postgraduate tuition to eligible staff.

Postgraduate programs may be taken in either on-campus or Distance modes and study can be completed on a part-time basis.

No return of service obligation is applied to Defence military personnel gaining a Defence-funded postgraduate award at UNSW Canberra, and an undergraduate degree is not always necessary for admission depending on whether you have relevant work experience or academic/professional qualifications.

If you are an ADF or Defence APS personnel (including Reserves on continuous full-time service) and would like to find out more about the Defence-funded places available, please contact your local DASS/Studybank Officer or visit [http://sas.unsw.adfa.edu.au/defence\\_personnel](http://sas.unsw.adfa.edu.au/defence_personnel)

## HOW TO APPLY

When applying for a Defence-funded Postgraduate Study position it is vital that you follow a few simple steps to give yourself the best chance of being admitted to UNSW Canberra and having the cost of your study met by the Department of Defence. Application for Defence-funded Postgraduate Study is a two-step process that must be completed **simultaneously**. You must submit an application for Defence funding AND apply for admission to UNSW. See information above on how to apply to UNSW Canberra and application closing dates above.

### DEFENCE FUNDING APPLICATION

#### Eligibility

Defence-funded postgraduate studies are open to all permanent Australian Defence Force (ADF) members, including Reserve Force members on continuous full-time service of a minimum of 365 days and Defence Australian Public Service (APS) employees. APS employees who are non-ongoing or are on graduate or other entry level programs are currently ineligible. Members need not necessarily have undertaken an undergraduate degree, as work experience and other educational qualifications will be taken into account when applying. There is no return of service on member-initiated postgraduate study at UNSW Canberra under this scheme.

#### Application process

In order to be considered eligible for funding all applicants must complete an ADF Application Form AD 481—

#### **Application for Postgraduate Study at UNSW Canberra.**

All applications are to be signed by the member's supervisor in the first instance, and then by the following recommending authority:

- within the Australian Capital Territory (ACT) an Executive Level (EL) 2 or O-6; and
- outside the ACT (Regional areas) an EL 1 or O-5.

Applications must reach the relevant regional Defence Assisted Study Scheme (DASS) or Studybank Office by the close of business on **1 November for Semester 1 study or by 30 April for Semester 2 study**. Applicants will be notified by their Education Training and Development (ET&D) DASS or Studybank Officer if they are successful in obtaining a Defence-funded position.

Please contact your ET&D delegate for details regarding your funding status.

**Do not wait to be informed of your Defence funding status to apply to UNSW, nor wait until you have been accepted by UNSW Canberra before applying for funding. Both applications are to be submitted concurrently. You can always alter your funding details or defer your study before the commencement date.**

A DEFGRAM is released twice per year calling for funding applications for Defence-funded Postgraduate Study at UNSW Canberra. They are released in February and August each year and contain all the information relevant for the up-coming study semester. The DEFGRAM can be found at <http://sas.unsw.adfa.edu.au/fees>

Please note

- students are reminded that they must submit an application form for funding **every semester** of their postgraduate program to be considered for continued Defence funding;
- no tuition fees are due (as long as you submit an application for funding each semester), however, you do have to pay for your textbooks, and any applicable late fees if you apply to UNSW after their cut off date; and
- late applications will only be considered when all 'on-time' applications have been allocated, and results from previous semesters are taken into account.

Applicants should familiarise themselves with the following Departmental documents:

**Civilians:**

- Departmental Personnel Instruction 4/2007—Studybank—The studies assistance scheme for civilian staff

**Military:**

- Defence Instruction (General) PERS 05-1—Defence Assisted Study Scheme

**IMPORTANT DATES FOR DEFENCE-FUNDED POSTGRADUATE STUDY APPLICATION**

**Defence Funding Process**

- DEFGRAM released August for Semester 1
- Funding applications for Semester 1 close 1 November
- Students notified by 20 January of funding status
- DEFGRAM released February for Semester 2
- Funding applications for Semester 2 close 30 April
- Students notified by 20 June of funding status
- DEFGRAM released August for Semester 1
- Funding applications for Semester 1 close 1 November

**UNSW Canberra Application Process**

- Academic applications for Semester 1 close 20 January
- Study Semester 1 commences March
- Study Semester 1 ceases June
- Academic applications for Semester 2 close 20 June
- Study Semester 2 commences July
- Study Semester 2 ceases October

**FURTHER INFORMATION**

Further information on Defence funding can be obtained by contacting your Local DASS/Studybank Officer.

**ADF HIGHER EDUCATION ADVANCE STANDING SCHEME (ADFHEAS)**

ADFHEAS is a scheme where defined, completed education and training provided by Defence may be accepted as "advanced standing" or "credit" towards specific university-awarded qualifications. More information on ADFHEAS opportunities at UNSW Canberra can be found at [www.defence.gov.au/adfheas/postgrad/uni.htm](http://www.defence.gov.au/adfheas/postgrad/uni.htm).



# Useful Resources

## » Glossary

**Course** - The individual subjects or units of study in which students enrol.

**Credit for previous study (Advanced Standing)** - Credit, or advanced standing, may be awarded for previous study undertaken at another university (e.g. someone who has studied a MBA may apply for credit towards the Master of Business at UNSW Canberra).

**Plan** - The area of specialisation within the degree program (e.g. in the Arts degree, students can choose to specialise in the Strategy and Security plan)

**Program** - The degree program (e.g. Master of Systems Engineering)

**Semester** - There are two semesters each year – Semester 1 (March – June) and Semester 2 (July – Nov).

**Units of Credit** - The value of each individual course (e.g. 6 units of credit or 6 UoC). A standard full-time load is 24 units of credit each semester (generally 4 x 6 UoC courses), while a standard part-time load is 12 units of credit each semester (generally 2 x 6 UoC courses).

## » UNSW Online Handbook

The most up-to-date Handbook with the added advantage of the course description being linked to its timetable information is the “UNSW Online Handbook” available at [www.handbook.unsw.edu.au](http://www.handbook.unsw.edu.au)

Here are some useful tips for searching the UNSW Online Handbook:

- When searching for “Programs by Faculty”, UNSW Canberra is listed as “University College”
- UNSW Canberra courses are coded with a z prefix

## » Frequently Asked Questions

### How many courses CAN I do?

It is up to you to determine how many courses you undertake each semester. In considering the number of courses, we ask that you carefully consider:

- possible family and social pressures and changes that might arise during a semester;
- your previous study experiences and outcomes; and
- any travel or possible work commitments.

### How many courses SHOULD I do?

If you have not studied at university or in the last 5 years, it is strongly recommended that you initially start your studies with one course in the first semester so that you are able to determine what is entailed and how to balance your study, home and work commitments. From this first experience you can then determine if it is feasible to commit to two courses of study in the following semester/s.

### What are the workload expectations?

The normal workload expectations are 25-30 hours per semester for EACH unit of credit. So the expected hours of study for a 6 unit of credit course is 150-180 hours which equates to 12-14 hours per week or approximately 2 hours per day. As the normal full-time workload for a student at UNSW Canberra is 24 units of credit, this means a total average workload of 600-700 hours for the semester.

This may be spread across a combination of face-to-face contact (e.g. lectures, tutorials, and laboratories), preparation for classes and time spent on assessable work (e.g. reading, using library resources, working on assignments, group study).

## What are my responsibilities when undertaking study?

The university expects you to meet course requirements and deadlines for assignments; participate actively in the learning process; monitor your own progress and seek advice when necessary; and notify your lecturer as soon as you become aware of issues that may affect your ability to successfully complete your course/s.

## Would I be able to obtain credit for undergraduate study or work experience?

Credit will only be granted for courses completed at the same tertiary level. If a student believes their previous studies and/or work experience has given them the knowledge and skills taught within a core course, but they have not completed suitable studies at a recognised tertiary institution, then they may seek approval from the relevant Head/s of School to substitute this course for one outside of their degree rules.

## What is the maximum amount of credit that I can claim?

Credit up to a maximum of 50% of UNSW Canberra coursework program requirements may be granted for completed or partially completed postgraduate awards in the same or related discipline from UNSW or another recognised tertiary institution, as follows:

- In the same or related discipline, a maximum of 50% of UNSW Canberra program requirements
- In an unrelated discipline, a maximum of 25% of UNSW Canberra program requirements

## How much Program (Study) Leave can I request?

You are allowed a maximum of two semesters of Program Leave for the duration of your program. Only in exceptional circumstances (with supporting documentation to be supplied) will a student's situation be assessed for eligibility for further leave, e.g. short notice deployment, major illness or injury.

## How long do I have to complete my program of study?

You will have 10 years from the year of commencement to complete your program (i.e. to graduate from the program). Generally, it would only take 7 years to complete postgraduate studies if starting at a Graduate Certificate and ending with a Masters, taking a course a semester and using your two semester's worth of Program Leave, i.e. Grad Cert 4 courses plus Grad Dip 6 courses/Masters 2 courses = 12 courses equals 6 years plus two semesters of Program Leave equals 7 years.

## What if I start a program of study and due to work commitments won't be able to complete it?

A student who has completed 24 UoC towards a Graduate Diploma or Masters may be eligible to exit the program and be awarded a Graduate Certificate. This student may later return to the same Graduate Diploma or Masters program and be granted up to 24 UoC for the courses previously completed.

## What is an "articulated" program and how does it work?

"Articulation" is the progression from the Graduate Diploma program into the Masters program. Once you have satisfied the Graduate Diploma degree program requirements you can seek to progress into the Masters program by requesting to "articulate". This just requires the submission of a Program Transfer form. Your academic record will be assessed to see if you have met the Graduate Diploma requirements (6 courses or 36 UoC as outlined in the degree requirements for the year you commenced your program) and if approved, transferred into the Masters level program to undertake a further 2 courses or 12 UoC to satisfy its degree requirements.

## » Living in Canberra

Canberra is a modern city just over 90 years old, chosen as Australia's national capital in 1908 as a diplomatic solution when both Melbourne and Sydney wanted the role. Its name comes from the local Aboriginal word 'Kamberra' meaning 'meeting place'.

As Australia's capital city, Canberra is the focal point for activities and events that affect and influence the nation. It is the home of Federal Government and the public service, a focus for business and industry, home to the international diplomatic community, a place of study or just a great place to live.

As a planned city, Canberra is known for its large open spaces, parklands and natural beauty. Coupled with fantastic town centres, a café culture and outdoor lifestyle, Canberra is an ideal place for students of all ages to call home. Located within a few hours drive of both the beach and Australia's best ski fields, Canberra offers an almost endless range of things to see and do. The other eastern seaboard cities of Sydney, Melbourne and Brisbane can be easily reached by bus, train or plane.

With almost 370,000 residents, Canberra is a cosmopolitan city enriched by strong national and international ties, a thriving cultural, educational, entertainment and sporting life and all set amidst extensive natural parks.

Canberra also offers unparalleled access to a range of research and study resources and is the base for a host of national organisations like the Australian Institute of Sport, the National Library, the National Gallery of Australia, a showcase Parliament House, the Australian War Memorial, government departments and CSIRO. Canberra offers a lively cultural life and is home to four universities and other higher education institutions.

## » Facilities for students

UNSW Canberra provides a range of facilities for both the on-campus and Distance students, including:

### **Academic Language and Learning (ALL) Unit**

The ALL Unit provides opportunities to enhance the student learning experience at UNSW Canberra by providing students with opportunities to develop their academic skills; master academic language and literacy strategies; clarify academic expectations and enable students to achieve their academic potential. For example, ALL assists students to enhance their note taking skills, prepare thesis outlines, avoid accidental plagiarism and improve presentation skills. This is done through courses, workshops, individual consultations, online guides and learning resources.

### **The Academy Library**

The Academy Library provides a variety of resources and services to all students. The library gives students access to vast amounts of information through texts kept on campus, electronic databases and its ever-expanding multimedia collection. A range of well-equipped flexible study spaces accommodate both students who like to study in a quiet space and those who prefer lively discussions with peers. This unit also offers orientation sessions for newcomers, seminars about utilising resources and subject guides to online information. Staff with expertise and subject knowledge are available to assist students with individual research queries.

<http://lib.unsw.adfa.edu.au/>

### **Arc**

Arc is a voluntary student organisation, led by students, that provides benefits and services tailored for students at UNSW Canberra. Members of Arc will enjoy: a strong social network; access to clubs and societies; special interest seminars by guest lecturers; access to special grants available only to students at this campus; free legal support and advocacy services; sports days and tours.

### **Counselling**

Counselling services can be arranged as required by the Equity Unit. International students are advised to visit the International Student Liaison Officer in the first instance and a suitable referral will be arranged. Please call 6268 8571. Alternatively, telephone counselling is available through UNSW Kensington campus. To arrange an appointment, please call 9385 5418.

### **Equity Unit**

The **Equity Unit** provides a range of services which may be accessed by students including: equity/diversity training; disability support; conflict resolution and advice/support in a friendly confidential environment. Students can also access the ALLY program, an active network that aims to create a more supportive and inclusive environment for lesbian, gay, bisexual, transgender, questioning heterosexual and intersex students.

### **Information Communication and Technology Services (ICTS)**

**Information Communication and Technology Services (ICTS)** supports the campus network with complementary links to sources within the ACT, and elsewhere in Australia and overseas via AARNet and GrangeNet.

ICT Services operates several hosts for teaching, research, and administration purposes, and directly supports a number of servers for student laboratories. The functions provided by these include WebCT, email, news, file transfer, directory services, backup and disaster recovery, security and virus detection, the UNSW Canberra corporate web site, and access via the WWW to the Internet.

The Centre maintains a number of application packages available on various machines. These include scientific and graphic libraries, statistical and econometric analysis programs, symbolic mathematics, text analysis, processing, typesetting, simulation and engineering design, and database work.

### **Marketing and Media Resources (MMR)**

Marketing and Media Resources (MMR) can assist students with the presentation of their assignments through graphic design, document production, video production, photography and sound recording.

## Research and Research Training Office (RRTO)

The Research and Research Training Office provides administrative support and advice to all existing and future research students. This unit provides information about applying for research scholarships and offers continuing advice to current scholarship awardees.

<http://research.unsw.adfa.edu.au/>

## Student Administrative Services (SAS)

Student Administrative Services provides advice and guidance on admission, enrolment, timetabling, academic progression, research candidature and graduation. SAS has a staff member dedicated to assisting international students with all aspects of living and studying at UNSW Canberra.

<http://sas.unsw.adfa.edu.au/>

## » Other facilities

The UNSW Canberra campus has state-of-the-art computing facilities, well-equipped and modern laboratories and a concessions area which includes a hair salon, a University Co-operative Bookshop, financial institutions, a 24-hr ATM and cafeteria/kiosk. Apart from defence staff, the Indoor Sports Centre which includes a pool, modern gymnasium and other facilities is only available to civilian students who are undertaking full-time study.

Research students have access to the Research Hub, a place for students to relax and socialise. It is equipped with a pool-table, television and other facilities.

In addition, there is an International Student Precinct, an area where international students can study and relax in comfort and quiet. Facilities include: cooking equipment; a photocopier and printer; study rooms; access to a wireless network; and a Muslim prayer room.

There is easy access to free car parking, a taxi rank and bus stops are located on campus.

All these services are designed to be flexible and provide students with outstanding support aiming to make educational experience as rewarding as possible.





UNSW Canberra Campus is located close to the city, the War Memorial and the Canberra Airport. The easiest way to get to UNSW Canberra is by car or public buses. Free parking is available on site.

Written and edited by Public Relations Manager and Student Administration Manager with assistance from the UNSW Canberra Schools.

Design by Marketing and Media Resources.  
June 2011

*Disclaimer:*

*The information in this guide was correct as at June 2011.*

*UNSW Canberra reserves the right to discontinue or vary programs, courses, arrangements or staff allocations at any time without notice. UNSW Canberra reserves the right not to offer any courses or units with enrolments of six or less. Prospective students should contact Student Administrative Services at UNSW Canberra to confirm admission requirements and availability of programs.*



**Closing dates for applications for admission to postgraduate programs at UNSW Canberra are:**

**20 January for all admissions in Semester 1**  
(March commencement)

**20 June for postgraduate coursework admission in Semester 2**  
(July commencement)

**20 May for postgraduate research admission in Semester 2**  
(July commencement)

For further information contact:

**Student Administrative Services**

**UNSW Canberra**  
**Australian Defence Force Academy**  
Northcott Drive, Canberra ACT 2600, Australia

Ph: +61 (02) 6268 6000

Fax: +61 (02) 6268 8666

Email: [sas@adfa.edu.au](mailto:sas@adfa.edu.au)

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

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