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A founding member of the Group of Eight, Australia’s leading research universities, the University of New South Wales (UNSW) is one of Australia’s top performing universities and has an outstanding international reputation – ranked 43rd in the 2020 QS World University Ranking.

UNSW has proudly provided education services to the Australian Defence Force (ADF) in Canberra for 50 years. Our graduates shape Australia, the region and the international community as leaders in defence, government, and industry.

UNSW Canberra is located at the Australian Defence Force Academy (ADFA) and through our experience in education and our achievements in research, we excel in teaching undergraduate, postgraduate, and doctoral research.

We provide undergraduate programs across a range of disciplines to Navy midshipmen and Army and Air Force Officer Cadets pursuing the ADFA Trainee Officer program, and STEM programs to non-Defence students and students supported by the Defence Civilian Undergraduate Sponsorship (DCUS) scheme.

Regardless of their study pathway, all of our undergraduate students benefit from the best university student-to-teacher ratio and one of the highest student retention rates in Australia, and have access to custom-built facilities and outstanding industry networks. They also graduate from one of Australia’s top performing universities with an outstanding international reputation.
UNSW is ranked 43rd in the 2020 QS World University Rankings.

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

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

UNSW is a member of the prestigious Group of Eight research intensive universities.

UNSW Canberra offers globally recognised, specialised engineering degrees, with Engineers Australia accreditation.

UNSW Canberra has purpose built workshops and facilities.
In 2016 UNSW Canberra opened up admissions for Engineering and Engineering/Science double degrees to non-Defence domestic students*, as well as single-year Honours programs in Arts, Business, Computing and Cyber Security, and Science.

Our specialist Engineering degrees (in Aeronautical, Civil, Electrical, and Mechanical) are accredited by Engineers Australia, and incorporate at least 60 days of industrial work experience. This means that if you study with us, you will graduate with a degree from one of Australia’s top universities, and be qualified to begin working immediately as an accredited engineer. In addition to this, under the Washington Accord, you will also be able to work as an engineer in the US, UK, Canada, Japan, and Southeast Asia.

*Domestic students include Australian Citizens, Permanent Residents of Australia, and New Zealand Citizens.
The Department of Defence offers the Defence Civilian Undergraduate Sponsorship (DCUS) scheme for aspiring students who wish to pursue a Computing and Cyber Security or an Engineering degree at UNSW Canberra. The Sponsorship provides participants with full tuition fee coverage, a generous bursary of $2000 per year of study, and paid work experience placements.

If you complete your degree program at UNSW Canberra as a DCUS student, you will graduate from one of Australia’s top universities with no HECS-HELP debt, and also be eligible to apply for a full-time job at the Department of Defence.

Although the DCUS scheme is aimed at students interested in a career in the Department of Defence, there are no return of service obligations upon graduation.

Navy Midshipmen and Army and Air Force Officer Cadets begin their careers in the Australian Defence Force (ADF) receiving a full-time salary while they undertake a program of military and leadership training at the Australian Defence Force Academy (ADFA). Simultaneously, they study an undergraduate degree program in Arts, Business, Computing and Cyber Security, Engineering, Science or Technology with UNSW Canberra.

If you are accepted into the ADFA Trainee Officer program you will receive your military training and education program from one of Australia’s top universities, fully paid for by the Australian Defence Force, which will provide you with the knowledge, skills, professional abilities, and qualities you will need as an officer in the ADF.
Non-Defence

Student Team-Based Projects

Our students have numerous opportunities to participate in extra-curricular, team-based engineering projects while studying at UNSW Canberra. These projects provide valuable team-building skills and are also a lot of fun!

Warman Design and Build Competition

The Warman Design and Build Competition has been an annual highlight at UNSW Canberra for 30 years. Student teams compete against each other to design, build and test a solution to a mythical engineering scenario. In 2017, 12 teams of second year mechanical and aeronautical engineering students competed to engineer a mining solution for Gondwana, a small planet on the outer fringes of our Galaxy, including, for the first time, a team comprising non-defence students. UNSW Canberra has placed first at the Warman Design and Build Competition national finals on two occasions, and achieved numerous podium placements.

UAV Challenge - Medical Express

The UAV Challenge - Medical Express is an international competition, aimed to demonstrate the use of robotic aircraft for medical retrieval and delivery. UNSW Canberra aeronautical engineering students participate in this bi-annual competition, and work together to design and build a UAV (Unmanned Aerial Vehicle) capable of flying 30km autonomously and then landing vertically in uncontrolled airspace. Students travel to remote Queensland to compete against other teams from around the world in this week-long competition.

Formula SAE Racing

Formula SAE Racing is an international design competition focused on the development, manufacture, testing, and racing of open-wheel Formula SAE spec cars. Over 500 teams from around the world compete in at least eight competitions which are held in the United States, the United Kingdom, Germany, Italy, Brazil, Japan, and Australia. UNSW Canberra students compete in the Formula SAE Australasian competition, which involves racing at Calder Park in Victoria. Participants take away valuable applied engineering experience, as well as developing team-building, communication, and project management skills. The UNSW Canberra team has also competed at Formula Student UK.

Learning Abroad

While you are studying at UNSW Canberra, we encourage you to think about participating in an overseas experience such as semester exchange, short courses, internships, or volunteer programs. With planning and approval, these opportunities can be counted as credit towards your degree, and many of them are supported with scholarships and travel grants. You may also be eligible to support your overseas experience with OS-HELP, a Commonwealth Government financial assistance scheme.

Full details can be found at:

student.unsw.edu.au/exchange

Accommodation

UNSW Canberra recognises the importance of student accommodation. We continuously seek opportunities to provide the best accommodation options for our non-Defence students. Please contact us for further information about student accommodation options available to you.
ADFA

Accommodation

Trainee Officers live in comfortable, functional accommodation at ADFA. Each Division consists of approximately 30-35 Trainee Officers, who are allocated a single accommodation building, or block. Within that block each Trainee Officer has a private room with a bed, storage and facilities for studying. Each corridor of four individual rooms contains a shared bathroom and laundry facilities. Trainee Officers at ADFA live and train in tri-service (combined Navy, Army and Air Force) Divisions.

VECCS

ADFA offers a range of sporting and voluntary extra-curricular clubs (VECCS) for Trainee Officers, encouraging them to compete against and become involved with local and interstate organisations. Some of the sporting clubs and VECCS currently offered at ADFA include: AFL, basketball, cricket, crossfit, cyber security, cycling, hockey, military shooting VECC, netball, photography, precision drill team, rowing, rugby, rugby league, soccer, swimming and many more.
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<tr>
<th>Program</th>
<th>Available to</th>
<th>Indicative Selection Rank 2019 ATAR</th>
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<tr>
<td></td>
<td>ADFA</td>
<td>DCUS</td>
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<tr>
<td>Bachelor of Arts</td>
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<td>Bachelor of Business</td>
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<td>Bachelor of Computing and Cyber Security</td>
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<td>Bachelor of Engineering (Honours)</td>
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<td>Bachelor of Engineering (Honours) / Science</td>
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<tr>
<td>Bachelor of Science</td>
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<td>Bachelor of Technology Aeronautical Engineering</td>
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<td>Bachelor of Technology Aviation</td>
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My degree at UNSW Canberra provides me with the flexibility to explore the many disciplines in humanities and social sciences, as well as those in business and the physical and environmental sciences. This has really helped me to find where my passions lie. I have always been drawn to learning languages, so I am really pleased that I have been able to continue my Indonesian language and cultural studies at UNSW Canberra. I’ve also had the opportunity to participate in a week-long study visit to Gadjah Mada University in Yogyakarta, Indonesia.

Studying at UNSW Canberra as a Trainee Officer has provided me with an amazing opportunity to study with world-class lecturers, and the small class sizes has helped me to gain a more thorough understanding of course content. My lecturers always make themselves available if I have any questions.

The military and academic programs at ADFA work together well. Although it can be challenging at times to maintain a good work/life balance, the workload really helps you to develop your time management skills. The environment at ADFA ensures that you not only achieve your military and academic goals, but that you also enjoy yourself while doing so!
Program Description

A UNSW Canberra Bachelor of Arts degree gives you strong written and oral communication skills, the capacity to research, think critically and the ability to work independently and collaboratively—all essential attributes of effective leaders in the Australian Defence Force.

The Bachelor of Arts degree enriches your understanding of how human beings make and debate life’s meaning and values. Students develop their capacity for critical analysis and argument as well as an awareness of the value of language as a political, intellectual, creative and communicative tool.

The diverse range of courses and electives form pathways for majors in:

Business • English and Media Studies • Geography • History
Indonesian Studies • International and Political Studies (IPS)
# Bachelor of Business

## Program Description

A UNSW Canberra Bachelor of Business degree prepares you for your Australian Defence Force career by developing key business management skills.

As you progress through your ADF career you will be called upon to manage the nation’s critical security resources from finances and personnel to aircraft, ships and tanks. You will be involved in business areas such as acquisition and procurement, project management, logistics and the management of people.

The UNSW Canberra Bachelor of Business degree uses the world class academic expertise of UNSW researchers to develop a sophisticated knowledge of strategy, leadership and other managerial concepts. The diverse range of electives form discipline pathways in economics, accounting, management and human resources and build a solid core of fundamental business knowledge.

If you want qualifications and skills highly sought after internationally by industry and government, the UNSW Canberra Bachelor of Business has you covered.

### Bachelor Degree
- Business

### Years
- 3

### Assumed Knowledge
- English

### Indicative Selection Rank 2019
- **ATAR**
  - 80
- **OP**
  - 10

### Offered to
- ADFA Trainee Officers

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**FOR CAREER OPTIONS SEE PAGES 34–37**
Emma Stansbie

I have always been interested in how a business operates, so my degree will not only help me prepare for my job as a Logistics Officer in the RAAF, but it will also provide me with an understanding of how organisations operate and how an organisation’s mission and vision is achieved. The project management, logistics, and people management skills I am learning within my degree will not only be helpful for achieving good outcomes and managing professional relationships within the ADF, but also managing ADF engagement with private enterprise.

The opportunity to study a full degree without incurring a HECS debt at the end of it is a great benefit of studying at UNSW Canberra as a Trainee Officer. However, the thing that makes studying at UNSW Canberra stand out above other universities is its reputation. UNSW is one of the top universities in Australia, and UNSW graduates are held in high esteem in the business world. I feel that I will be able to provide my employer (the ADF) with a great asset!

I haven’t found it challenging to balance my military training and my studies, as UNSW Canberra is very accommodating and understands the importance of our military commitments.
Heath Bortolin

My interest in computing began in high school, where I spent lots of my spare time working on computers and joined groups like the Code Cadets. I love the idea of being able to solve problems with lines of code, and understanding how computers worked always intrigued me.

It was a trip to Silicon Valley, which included visits to major technology companies such as Apple, Google, and Facebook that inspired me to take software design and development as part of my HSC, and eventually enabled me to study computing and cyber security at UNSW Canberra.

Some of the best things about studying at UNSW Canberra include the quality and enthusiasm of the teaching staff, as well as the state of the art facilities such as the Cyber Range. I was keen to stay in Canberra for my tertiary studies, but I also wanted to study at a top university in my chosen field. These considerations made UNSW Canberra the perfect option for me.

When I finish studying I am interested in applying for the Defence Graduate Program, as this will give me the opportunity to work in a range of areas supporting Australia’s cyber warfare capabilities, and apply my cyber security expertise.
Bachelor of Computing and Cyber Security

Program Description

The Bachelor of Computing and Cyber Security is a three year program at pass level. Students who complete the pass degree at an appropriate level may be admitted to an additional one-year Honours program.

The program is designed to build the graduate attributes and skills for market-ready graduates seeking a career in software and cyber security engineering, industry, innovation, management, operations, and research.

The program is delivered using state of the art infrastructure for software design, development, networking, security, simulation, testing, operations, and research.

The Bachelor of Computing and Cyber Security introduces students to Computer Science fundamentals and builds practical programming and cyber security skills. Topics include application development, cyber-physical systems, digital forensics, algorithms and data representation, and network design and operation. In the third-year capstone project course, teams of students select from a variety of real-life ADF and civilian challenges to which they apply the knowledge and skills they gained during the program.
Program Description

Aeronautical engineering is the study of the design, development, manufacture, maintenance, and control of machines or vehicles operating in the Earth’s atmosphere or in outer space.

The design of a flight vehicle is complex and demands knowledge of many engineering disciplines such as aerodynamics, propulsion systems, structural design, materials, avionics, and stability and control systems. Maintaining and operating a flight vehicle requires an understanding of materials, reliability and maintenance, structural analysis for necessary repairs, together with the knowledge of the disciplines within the design process.

If you select the Bachelor of Engineering (Honours) Aeronautical at UNSW Canberra, you will study subjects such as engineering practice and design, computational problem solving, programming, mathematics, physics, engineering materials, aircraft and systems design, cyber security, and applied thermodynamics and propulsion. You will spend at least 60 days gaining practical engineering experience in the workplace during your degree, and you will undertake your own capstone research project in your final year. Your degree will also be accredited with Engineers Australia, which means that you will be qualified to begin working as an engineer in Australia and many parts of the world as soon as you graduate.
Dominic Hill

I have been interested in engineering since I can remember. I have always been excited by the way engines and aircraft work and move. This interest was heightened when I started my flight training, and since becoming a qualified pilot and starting my studies at UNSW Canberra, I’ve learnt much about aircraft systems and the science behind flight.

I first heard about the specialised engineering degree program at UNSW Canberra through my high school careers advisor and a friend who had already started the program. Once I heard about all of the opportunities available within the program I realised it was the perfect degree for me.

So far I’ve been exposed to a multitude of different learning environments, from lectures to hands-on workshops. The highlight so far has been being taught how to operate equipment and machinery required to design and build systems, and developing hands-on skills in welding, oxy-fuel cutting, and working with the lathe. The opportunity to develop these hands-on skills is unique to UNSW Canberra.

When I finish my degree I’m looking forward to pursuing a position in the Defence Graduate Program to work in Defence as an engineer.
Rose Mackay

I’ve always been interested in how things work and how they’re made, so when I found out in high school that I could pursue these passions through a civil engineering degree, I was really excited!

I was originally looking at studying civil engineering in Sydney, but I was really glad when I found out through a careers guide I could study here in my home town of Canberra.

I think the best thing about studying at UNSW Canberra is the small class sizes. The lecturers and tutors get to know who you are very quickly and really help you through the courses. You also get to know all the other students, and you make good friends really fast.

When I finish my degree I have plans to take my knowledge into an international career in civil engineering, which I can do through the Washington Accord. I’d love to travel and work on designing in cities across the globe.
Bachelor of Engineering (Honours) Civil

Doctor of Philosophy

Program Description

Civil engineering focuses on the planning, design, construction and management of civil facilities of all types, such as buildings, roads, bridges, airfields, water supply and storage, waste treatment facilities, offshore platforms, wind farms and landfills.

A degree in civil engineering will provide you with professional engineering design, construction, and management skills, as well as an opportunity to focus on the interaction between civil engineering and other disciplines, and the effect that civil engineering works have on the environment.

If you select the Bachelor of Engineering (Honours) Civil at UNSW Canberra, you will study subjects such as engineering mechanics, computational problem solving, programming, mathematics, physics, structural analysis, geotechnical design, transport management, cyber security, and hydrology and environmental engineering practice. You will spend at least 60 days gaining practical engineering experience in the workplace during your degree, and you will undertake your own capstone research project in your final year. Your degree will also be accredited with Engineers Australia, which means that you will be qualified to begin working as an engineer in Australia and many parts of the world as soon as you graduate.

Bachelor Degree
Engineering (Honours)

Years
4

Assumed Knowledge
Mathematics and Physics

Indicative Selection Rank 2019
ADFA & DCUS
ATAR
85

OP
8

Indicative Selection Rank 2019
Non-Defence
ATAR
93

OP
5

Offered to
ADFA Trainee Officers
DCUS
Non-Defence

FOR CAREER OPTIONS SEE PAGES 34–37
Bachelor of Engineering (Honours) Electrical

Program Description

Electrical engineering is built on a foundation of mathematics, computer science, and physical science. A degree in electrical engineering will provide you with high-level project management skills, as well as engineering expertise to equip you with the skills you need to practice as an electrical engineer.

If you select the Bachelor of Engineering (Honours) Electrical at UNSW Canberra, you will study subjects such as computational problem solving, programming, mathematics, physics, data structures, signals and systems, communications, design of electronic circuits, power machines, and radar and computer engineering. You will spend at least 60 days gaining practical engineering experience in the workplace during your degree, and you will undertake your own capstone research project in your final year. Your degree will also be accredited with Engineers Australia, which means that you will be qualified to begin working as an engineer in Australia and many parts of the world as soon as you graduate.
Nadia Govier

I first became interested in engineering when I was in year 12. I’d always loved being creative and enjoyed maths and physics, so I knew it could be a great career path. The most exciting thing about it is how I can use it to do things I never imagined myself doing before, whether it be designing and building a circuit or programming a robot.

The best thing about studying at UNSW Canberra is the great access you get to your lecturers, due to the small class sizes. Many lecturers are more than happy to help or just have a chat outside of class hours, so I’ve gotten to know some of them very well. The free gym and pool are also a great bonus for students!

When I finish my degree I’m hoping to start a career with the Department of Defence, in the Capability Acquisition and Sustainment Group (CASG), to help acquire and sustain the equipment that is so important for Defence requirements.
Teresa Lin

Engineering has always been a focus in my family—my parents and older siblings have all studied various streams of engineering at undergraduate and postgraduate levels. Because of this influence from a young age, I have always found myself taking apart machines and devices and investigating how things work.

I had always intended on studying engineering at UNSW, and when I heard that the Canberra campus had opened engineering programs to non-Defence students, I jumped at the opportunity immediately!

I’ve found that the best aspect of studying at UNSW Canberra is the great student to staff ratio—I can really approach my lecturers and tutors with questions and receive one-on-one help, which has had an enormous impact on my education.

With my mechanical engineering degree from UNSW Canberra, I hope to work on cutting edge technology and innovation with leading industry partners, and continue to widen my breadth of knowledge.
Bachelor of Engineering (Honours) Mechanical

Program Description

Mechanical engineering is the branch of engineering concerned with machines and the production of power, and with forces and motion. It focuses on the core task of devising new and better ways to extract mechanical power from heat, and to use that power to perform useful tasks.

A degree in mechanical engineering will provide you with a solid understanding of thermodynamics, mechanical systems dynamics, properties of solid materials, fluid dynamics, design, and high-level project management skills.

If you select the Bachelor of Engineering (Honours) Mechanical at UNSW Canberra, you will study subjects such as computational problem solving, programming, mathematics, physics, fluid mechanics, mechanics of machines, mechanical design, engineering materials, and cyber security. You will spend at least 60 days gaining practical engineering experience in the workplace during your degree, and you will undertake your own capstone research project in your final year. Your degree will also be accredited with Engineers Australia, which means that you will be qualified to begin working as an engineer in Australia and many parts of the world as soon as you graduate.
Program Description

All of the engineering degrees at UNSW Canberra can be combined with a Bachelor of Science, which provides students with the option of graduating with two degrees at the end of five years of combined study.

If you choose to study the Bachelor of Engineering (Honours)/Bachelor of Science, in addition to gaining the knowledge in your chosen branch of engineering, you will also gain an understanding of the physical universe and the way humans interact with it.

Science is the foundation of modern technologies that enhance quality of life, and is crucial in the control of disease, biotechnology, the creation of new, sustainable energy sources, information technology, and the management of natural resources.

A Bachelor of Science will provide you with invaluable skills that will be useful in all professions, including creative thinking, problem-solving, critical thinking, and communication skills.
Man Luc

As a child, I could often be found tinkering with electronics and machinery around the house. Eventually this led to my parents suggesting engineering as a future goal. While a future career didn’t mean much to me when I was a child, as I grew older the idea grew with me, and I realised that a career revolving around technologies is definitely one that suits me.

The best thing about studying at UNSW Canberra is the great facilities that are available to students, such as the access we have to a fully stocked engineering workshop with tools and machinery. We also have great staff/student ratios and many support programs.

Once I finish my Bachelor of Engineering (Honours) / Bachelor of Science double degree, I aim to pursue an engineering career in the Australian Defence Force.
Max Pickering

I had a lot of flexibility in my degree choice at UNSW Canberra, as I was selected as a pilot for the RAAF. I chose a Bachelor of Science as it allows me to study something that I am really interested in, and would have chosen at another university if I hadn’t been accepted into the ADF.

Although it doesn’t necessarily relate directly to my job, my degree is helping me to develop the way that I think and learn. The blend of a military and university learning environment exposes us to unique learning methods, which will hopefully hold me in good stead while I continue my training and complete my pilots course.

Although living and learning in a tri-service environment can present some challenges, it also facilitates great networking opportunities and develops amazing comradery and a great culture. Sometimes it might be difficult to keep all the balls in the air, but we are allowed to make, and more importantly, learn from our mistakes. No other university in Australia can offer the same environment of mateship and fun!
Program Description

A UNSW Canberra Bachelor of Science degree keeps your Defence career options open. The Australian Defence Force requires leaders with sound scientific knowledge and problem-solving skills. As a BSc graduate you will possess the intellectual and analytical skills required to be an effective leader and have broad choices about where to take your ADF career.

A Bachelor of Science degree from UNSW Canberra offers you a diverse understanding of the physical universe, from chemistry and sub-atomic physics, to large-scale behaviours of oceans and planets, to computational techniques and data analysis.

Science is the foundation of most human knowledge, and all the machinery and technology in our society. Science is fundamental to technology creation, computers, aircraft, ships, weapons and explosives, code-making and code-breaking and more.

The UNSW Canberra Bachelor of Science degree develops skills in critical thinking, problem solving and communication. It develops scientific literacy, and gives detailed scientific knowledge in your chosen fields of study. Your studies will prepare you in your career as an Officer to deal with a breadth of technical, scientific, strategic and logistic issues.

The diverse range of courses and electives form pathways for majors in:

Aviation • Chemistry • Computer Science • Geography • Mathematics • Oceanography • Physics
Bachelor Degree
Technology (Aeronautical Engineering)

Years
3

Assumed Knowledge
Mathematics and Physics

Indicative Selection Rank 2019
85

OP
8

Offered to
ADFA Trainee Officers

FOR CAREER OPTIONS SEE PAGES 34–37

Program Description

The Bachelor of Technology (Aeronautical Engineering) degree provides a solid and broad foundation in Engineering Technology, specially developed to meet the needs of the Australian Defence Force and accredited by Engineers Australia at the Engineering Technologist level.

The Bachelor of Technology (Aeronautical Engineering) is organised into areas such as foundation science, engineering technology, materials and structures, dynamics and control, thermofluids, and design and management, as well as discipline specific areas such as aircraft and engines.

At the discretion of the Services, if you have completed the Bachelor of Technology and wish to upgrade to a Bachelor of Engineering (Honours) degree in Aeronautical Engineering, you may undertake 12 months of further study at a later date.
Jace Stallard

I always enjoyed science, maths, and engineering subjects at high school, so doing a Bachelor of Technology (Aeronautical Engineering) seemed perfect for me. I was also very interested in doing an engineering-based degree, regardless of which job I pursued in the Navy. My UNSW Canberra degree will open avenues into flight test engineering, which is an area that I am very interested in and would like to pursue through my career.

Living and studying on campus and having access to prepared meals each day really helps me to focus on my studies and get more out of them. As I live with most of the people I go to university with, it makes it really easy to organise group study sessions. Also, if I don’t know how to do something, there is always a friend nearby who can help.

UNSW Canberra and Defence work really well together to ensure that we have a healthy balance of university studies and military training. By ensuring that you develop your time management skills as soon as you arrive, it doesn’t take long to settle into a good routine.
Annaliese Palmer

My UNSW Canberra degree is providing me with aircraft knowledge that will be relevant for me throughout my career—from theories surrounding flight, to instructions on how to fly, through to air-traffic management. It is also providing me with a greater technical understanding of an aircraft and will provide me with the ability to interact confidently with engineers and senior pilots and assess aircraft technicalities.

I haven’t had any problems balancing my academic and military commitments so far, as UNSW Canberra and ADFA work together to ensure that assessment doesn’t overlap too much, and that we aren’t put under undue pressure.

I study and live in an environment with like-minded people who always offer to help me with my academic and military studies. I feel that I have already made life-long friendships, as well as connections that I will be able to utilise throughout my ADF career.
Bachelor of Technology (Aviation)

Program Description

The Bachelor of Technology (Aviation) degree involves three years of study. Year one is a common program of foundation science and engineering courses with other first year technology and engineering students.

In second and third years, you focus on human factors in the aviation discipline. You develop a solid understanding of the function of Pilots, Air Combat Officers, Maritime Aviation Warfare Officers and Joint Battlefield Airspace Controllers and their role in aviation, infrastructure, and safety management systems. You develop a sound knowledge of key safety practices-components that underpin aviation.

Courses in aerodynamics and aviation systems incorporate problem based learning informed by academic research and industrial practice.

Electives and a final semester project enable you to pursue your interests both within and outside the Technology (Aviation) discipline.

Bachelor Degree
Technology (Aviation)

Years
3

Assumed Knowledge
Mathematics and Physics

Indicative Selection Rank 2019
80

OP
10

Offered to
ADFA Trainee Officers

FOR CAREER OPTIONS SEE PAGES 34–37
The Chief of the Defence Force (CDF) programs offer the opportunity for students entering UNSW Canberra with a high Entrance Rank, and who maintain a high level of performance in their studies, to undertake research in a range of disciplines that will develop their critical thinking and independent research skills beyond that available in the standard bachelor degree programs.

The range of CDF programs are characterised by the inclusion of specialist courses in critical analysis and/or research methods appropriate to the area of study.

All programs also include discipline-specific research projects. The research projects will be supervised by academic staff from the relevant discipline. With the approval of the Head of School, multi- or cross-disciplinary projects may be undertaken. Students in the research courses may work independently or as part of a team, depending on the nature of the project undertaken, though all students will submit individual assessment. Final assessment will be based on a written paper or report and oral presentations.

Throughout the program, students will be engaged with cohort activities so as to develop and maintain their interest and continuing involvement in the program via invited lectures, seminars, general reading and social events.

• This program is not open to applications (by invitation only).

• Students will be invited to enter the program relative to their degree, i.e. Bachelor of Arts student can be invited into Bachelor of Arts CDF in Year 1 or the start of Year 2 and must maintain a high level of academic performance.

• CDF graduates receive a distinctive award to reflect their involvement in the Program.

• Adjustment Factors (Bonus Points) do not apply for entry to the CDF Program.
## Lowest Selection Rank 2019

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<tr>
<th>Program</th>
<th>ATAR</th>
<th>OP</th>
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<tbody>
<tr>
<td>CDF Arts</td>
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<td>CDF Business</td>
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<td>CDF Computing and Cyber Security</td>
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<td>CDF Engineering (Honours)</td>
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<tr>
<td>CDF Science</td>
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<tr>
<td>CDF Technology</td>
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## WHAT CAN I BE?

All information contained in this brochure is to the best of our knowledge accurate at the date of publication - but may be subject to change after publication without notice. Persons intending to act on any information contained within this brochure should first check with their local Defence Force Recruiting Centre whether or not the information is still correct and accurate.

<table>
<thead>
<tr>
<th>UNSW Degree</th>
<th>Navy</th>
<th>Army</th>
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<td><strong>Arts</strong></td>
<td>Helicopter Pilot</td>
<td>Army Officer, in any specialisation or corps</td>
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<td>Intelligence Officer</td>
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<td>Maritime Warfare Officer Submariner</td>
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<td><strong>Business</strong></td>
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<td><strong>Computing and Cyber Security</strong></td>
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<td><strong>Aeronautical Engineering</strong></td>
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<td><strong>Electrical Engineering</strong></td>
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<td>Mission Aircrew</td>
<td>As an aeronautical engineer, you could work in aircraft, defence, or space industries, on the design and manufacture of light or passenger aircraft, or military jets. Engineering graduates also work in the airline industry on aircraft acquisitions, maintenance and configuration, as well as working in manufacturing companies, process engineering, warehousing and logistics, business and operations modelling, and transport.</td>
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<td>Air Traffic Controller (Mission Controller)</td>
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<td><strong>Armament Engineer</strong></td>
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<td>Airfield Engineer</td>
<td>With a degree in civil engineering you could work in all fields of infrastructure development, from constructing skyscrapers through to designing and building dams and bridges. You could also work in regulatory and planning roles with government agencies, specialist consulting firms, construction companies, and financial and management consultancies.</td>
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<td>Electronics Engineer</td>
<td>With a degree in electrical engineering you could work in the space industry, in a telecommunications or electricity company, or with large industrial groups in fields ranging from steelmaking to mobile phone manufacturing, or with specialist firms making hi-tech biomedical or internet products, or service industries, new technology firms, manufacturing, and transport.</td>
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<td>With a degree in mechanical engineering you could work in the automotive, aerospace, and transport industries, or in power generation, refineries, insurance industries, building services, railway systems design, consumer goods design, or production and management consultancies.</td>
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<td>Science</td>
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UNSW CANBERRA
HOW TO APPLY

Non-Defence Applicants

1. Apply to UNSW Canberra at ADFA through the Universities Admissions Centre
   - uac.edu.au

2. Submit FEAS application in addition to UAC application
   - unsw.adfa.edu.au/feas

ADFA Applicants

1. Apply through Defence Force Recruiting
   - 13 19 01
   - defencejobs.gov.au

2. Apply to UNSW Canberra at ADFA through the Universities Admissions Centre
   - uac.edu.au

DCUS Applicants

1. Apply through the Defence online recruitment website
   - defence.gov.au/dmo/careers/students andgraduates/undergraduatesponsorship

Please check the Defence online recruitment website for application deadlines.

2. Apply to UNSW Canberra at ADFA through the Universities Admissions Centre
   - uac.edu.au

Accept both ADF & UNSW Offers. Commence at ADFA in January.
The Faculty of Engineering Admission Scheme (FEAS) provides a possible alternative admission pathway into the Bachelor of Engineering (Honours) at UNSW Canberra, for students who do not meet the advertised ATAR requirement.

Students who achieve an ATAR (or equivalent) between 83.00 and 92.95, and who have an ability in mathematics, knowledge of physical science, design and problem solving, and a motivation toward engineering studies will be considered for admission into the Bachelor of Engineering (Honours) at UNSW Canberra, under the Faculty of Engineering Admission Scheme.

If you anticipate achieving an ATAR (or equivalent) between 83.00 and 92.95, we strongly recommend that you maximise your opportunity for admission to UNSW Canberra by applying for FEAS.

Applying for FEAS will involve a separate online application, as well as a testimonial as to why you think you should be considered for alternative entry. Full details can be found at:

unsw.adfa.edu.au/feas
Adjustment Factors (Bonus Points)

UNSW offers a variety of Adjustment Factors (bonus points) schemes to prospective students. A maximum of 10 bonus points may be used to assist with entry to our degrees.

**HSC Plus**

HSC Plus is a program of awarding bonus points for strong performance in Year 12 courses relevant to UNSW undergraduate degrees.

**HSC Plus:** maximum 5 bonus points

No separate application required. Automatically calculated through UAC.

**Elite Athletes and Performers**

The EAP Program awards up to five bonus points to high school leavers who have excelled in areas of sport, academia, performance, leadership, and/or music at a national or international level during Years 11 and/or 12.

**EAP:** Maximum 5 bonus points

Applications to UNSW:

futurestudents.unsw.edu.au/adjustment-factors-eapl

Applications close 30 November

**Educational Access Scheme**

The Access Scheme is provided for students who have experienced long term educational disadvantage. Circumstances include:

- Financial hardship/low SES
- English language difficulties
- Refugee status
- Disability or long-term illness
- Severe family illness/death
- Attendance at a rural or disadvantaged high school

**EAS:** maximum 10 bonus points

Applicants apply through UAC:

uac.edu.au/future-applicants/scholarships-and-schemes/educational-access-schemes
Fees, Scholarships & Sponsorships

Fees
To find the most up to date information on fees, including the 2019 student contribution ranges, go to:

unsw.edu.au/fees

DCUS
Full details on DCUS, including the application process can be found at:

defence.gov.au/APSCareers/DCUS.asp

Scholarships
Some scholarship programs require no application because they are awarded based on ATAR results. To find out more about our scholarships, go to:

scholarships.unsw.edu.au

UNSW Scientia Scholarships
These scholarships are offered to students with an ATAR of 99.90+ or an IB score of 45, and provide $10,000 per year, plus an academic mentor, for the duration of the degree program.

Academic Achievement Awards
These awards are offered to students with the highest ATAR from ACT and NSW schools, and are valued at $5,000 each.

UNSW Veterans Scholarship
This scholarship is open to former and transitioning Australian Defence Force personnel and their dependents who are experiencing disadvantage. The scholarship provides $5,000 per year for the duration of the degree program.

UNSW Equity Scholarships
UNSW offers a wide range of Equity Scholarships to assist commencing students to undertake full-time study for the duration of their coursework degree program.