



ADFA

EDUCATING OUR FUTURE LEADERS

2020

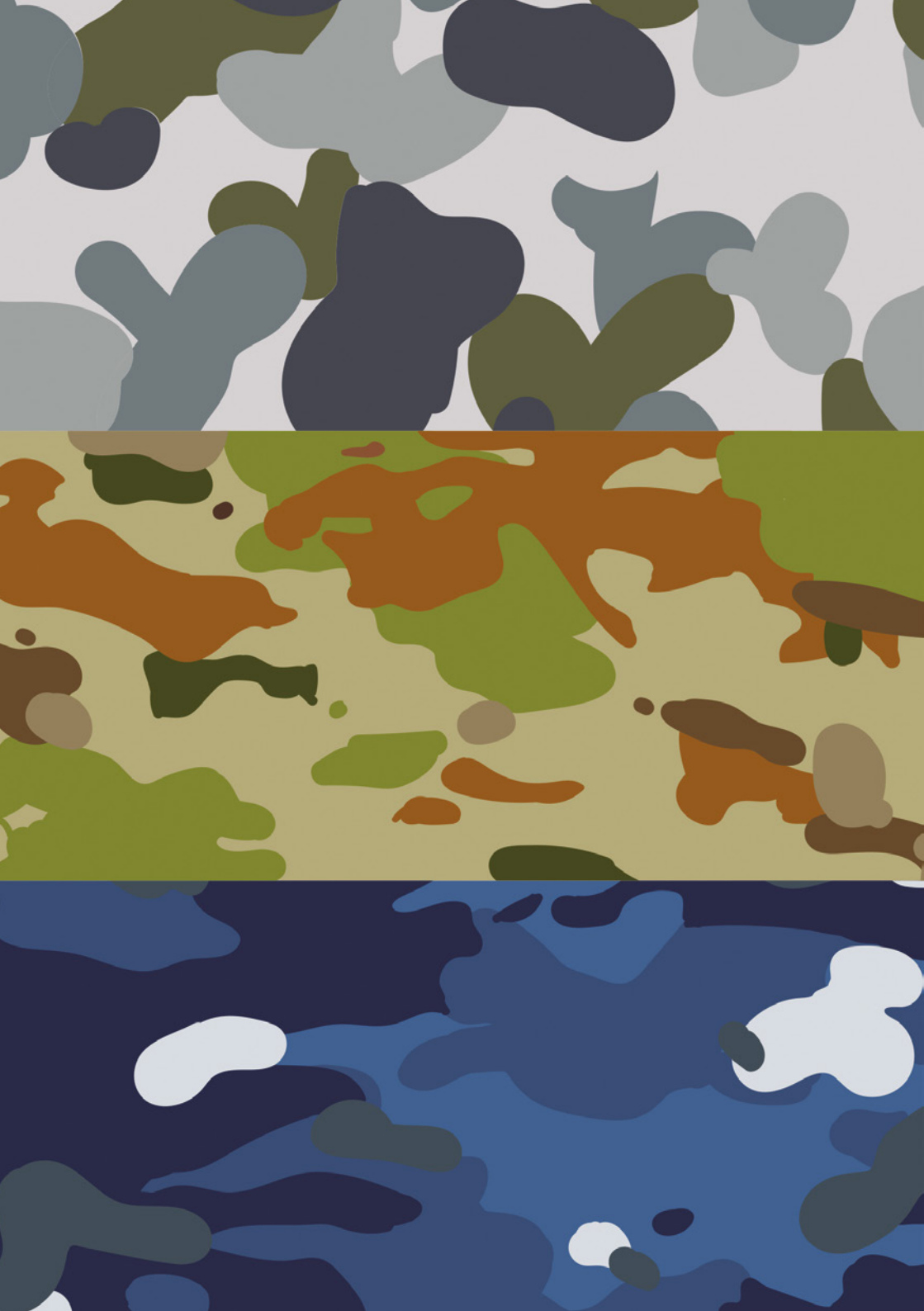


ADFA
AUSTRALIAN DEFENCE FORCE ACADEMY



UNSW
CANBERRA





WORLD-CLASS DEGREES.

UNRIVALLED MILITARY &

LEADERSHIP TRAINING.



UNSW
CANBERRA

Forged from a unique partnership between the Australian Defence Force (ADF) and the University of New South Wales (UNSW), the Australian Defence Force Academy (ADFA) in Canberra offers world-class degrees undertaken in parallel with military and leadership training.

If accepted to join the Navy, Army or Air Force and attend ADFA, you will receive a fully-funded tertiary education plus a salary while you study and train. In return for a minimum period of military service, your HELP debt will be covered.

- One of the world's top 50 universities*
- Member of the Group of Eight leading research intensive universities
- Australia's best student-to-teacher ratios
- Recognised as the university with the strongest links to industry

*QS World University Rankings 2018



FEATURED

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This brochure provides an overview of the opportunities available to you at ADFA. Look out for the search symbol to access additional information online.



LEARN TO

BE A LEADER

IN YOUR

CHOSEN FIELD




**THE ADF OFFERS OUTSTANDING
CAREER OPPORTUNITIES IN
A WIDE VARIETY OF AREAS
INCLUDING AVIATION, BUSINESS
MANAGEMENT, ENGINEERING,
LOGISTICS AND TECHNOLOGY.**

Your UNSW degree from ADFA will secure you a prestigious role as an officer in the Navy, Army or Air Force; and uniquely, you'll leave university equipped with a broad range of leadership skills.

Armed with world-class qualifications, and the ability to take command, make informed decisions and bring out the best in people, you'll embark on a rich and rewarding career that takes you as far as you aspire to go.





SERVE YOUR COUNTRY IN THE ADF

**SECURING A PLACE AT ADFA MEANS
YOU'RE ALSO JOINING THE AUSTRALIAN
DEFENCE FORCE, ONE OF THE WORLD'S
LEADING MILITARY ORGANISATIONS.**

Working for this highly regarded employer, you will be a member of a modern, people-focused community spread across Australia and overseas. You'll join a group of talented and resourceful men and women equipped with cutting edge military technology, protecting Australia, its interests, and its way of life.

Serving in the Navy, Army or Air Force, you may also enjoy the satisfaction of helping communities in need, engaging in activities such as search and rescue, humanitarian assistance and disaster relief.



JOIN A

DIVERSE GROUP

OF STUDENTS



YOU'LL FIND YOUR CLASSMATES ARE FROM DIFFERENT BACKGROUNDS, AND FROM ALL OVER AUSTRALIA AND THE WORLD.

ADFA STUDENTS (CALLED MIDSHIPMEN IN THE NAVY AND OFFICER CADETS IN THE ARMY AND AIR FORCE) ALL STUDY AND SOCIALISE TOGETHER.

A common thread amongst ADFA students is a willingness to work hard, tackle new challenges, adapt to new situations and be strong team members, as well as potential team leaders.

Bonds you establish at ADFA will be strengthened by exciting shared experiences, and many of the people you study with will become friends for life.



ENJOY ALL THE BENEFITS OF ADFA AND THE ADF





AMBITIOUS YOUNG PEOPLE ARE DRAWN TO ADFA BY ITS REPUTATION FOR ACADEMIC EXCELLENCE AND THE DIVERSE CAREER OPPORTUNITIES IT UNLOCKS. BUT THERE ARE PLENTY OF OTHER GOOD REASONS TO CHOOSE ADFA OVER TRADITIONAL UNIVERSITIES.

CAREER BENEFITS



- A world-class UNSW degree
- Sought-after qualifications with no HELP debt
- Graduates are guaranteed a job as an ADF officer
- Leadership training
- Skills and experience that set you up for life

FINANCIAL BENEFITS



- A salary as you study
- Uni fees fully funded by the ADF
- Subsidised food and accommodation
- Free medical and dental care
- Generous superannuation

LIFESTYLE BENEFITS



- Studies balanced with spare time
- Supportive team environment
- Free fitness and leisure facilities
- Variety of sports clubs
- City, scenery and snow nearby

EXPERIENCE A UNIQUE AND FULFILLING LIFESTYLE



WHILE MILITARY TRAINING AND ACADEMIC PURSUITS ARE THE FOCUS OF LIFE AT ADFA, THERE'S PLENTY OF TIME FOR SPORT, LEISURE AND SOCIALISING WITH YOUR NEW FRIENDS.

Rooms are comfortable and private, there are plenty of common areas to relax and unwind, and the restaurants, museums, bars and entertainment of Canberra are nearby. Above all, ADFA offers a secure and supportive environment for study and extracurricular activities.

SPORTS AND EXERCISE

ADFA has a state-of-the-art indoor sports centre housing a swimming pool, squash courts, a gymnasium and weights room. Sports played on campus include:

- | | |
|-----------------------------|------------------|
| ■ Australian Rules Football | ■ Rugby Union |
| ■ Basketball | ■ Sailing |
| ■ Cycling | ■ Soccer |
| ■ Hockey | ■ Softball |
| ■ Netball | ■ Squash |
| ■ Orienteering | ■ Tennis |
| ■ Rowing | ■ Touch Football |
| ■ Rugby League | ■ Volleyball |
| | ■ Water Polo |

CAMPUS FACILITIES

You'll find everything you need for everyday life on the ADFA campus, including:

- | | |
|----------------|--------------------|
| ■ Bank | ■ Dry cleaner |
| ■ Bookshop | ■ Hairdresser |
| ■ Cadets' mess | ■ Public transport |
| ■ Café | |

OTHER ACTIVITIES

The activity options at ADFA are endless, and include:

- | | |
|--|---------------------|
| ■ Crossfit | ■ Military shooting |
| ■ Debating | ■ Performing arts |
| ■ Committees for Academy events and social functions | ■ Playing in a band |
| | ■ Taekwondo |

To watch videos of life and work at ADFA:

 **'DEFENCE JOBS ADFA'**

For more about what life's like for students:

 **'DEFENCE JOBS ADFA FAQS'**



A background image of a brown rock climbing wall with various colorful climbing holds (orange, yellow, green, blue, red). A red rope is visible, and a person's leg is partially visible in the bottom left corner.

*The friends you
make here and
the experiences
you get are
second to none.*

PETA, ARMY OFFICER CADET

BACHELOR OF SCIENCE



CHOOSE A UNSW DEGREE

ENGINEERING

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ENGINEERING

BACHELOR OF

BE (HONS)

UAC CODE 450040

AERONAUTICAL ENGINEERING

(HONOURS)



INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
85 MIN	8*

DURATION

 Four years full time

ASSUMED SUBJECT KNOWLEDGE

- Mathematics
- Physics
- Chemistry is desirable, but not essential

SUBJECT OVERVIEW

Aeronautical Engineering is the study of the design, development, manufacture, maintenance and control of vehicles operating in the earth's atmosphere or in outer space. Such vehicles require the highest standards of engineering as they have to be very light relative to the loads they carry, and yet be strong and reliable as the consequences of failure are significant.

Aircraft are critical to the operations of the Navy, Army and Air Force, therefore Aeronautical Engineers are employed in all three Services.

Although the ADF does not design or build aircraft, as an ADF engineer, you will have to ensure that aircraft are supplied and maintained to the highest standards, using the correct parts and materials installed with best-practice workmanship. At the same time, you will have to manage these activities with extreme efficiency as maintaining an air fleet during operations is time-critical. Our aeronautical maintenance engineers therefore need high-level project management skills as well as engineering expertise.

The Aeronautical Engineering program has been developed to meet the needs of the ADF and covers the design, reliability and maintenance of both fixed-wing and rotary-wing aircraft.

AERONAUTICAL ENGINEERING

IN AN ADF CAREER



NAVY

Navy Aeronautical Engineering graduates are required for the maintenance and repair, modifications, operational deployments and airworthiness of advanced helicopters such as the MRH-90 Taipan and the MH-60R Seahawk Romeo.



ARMY

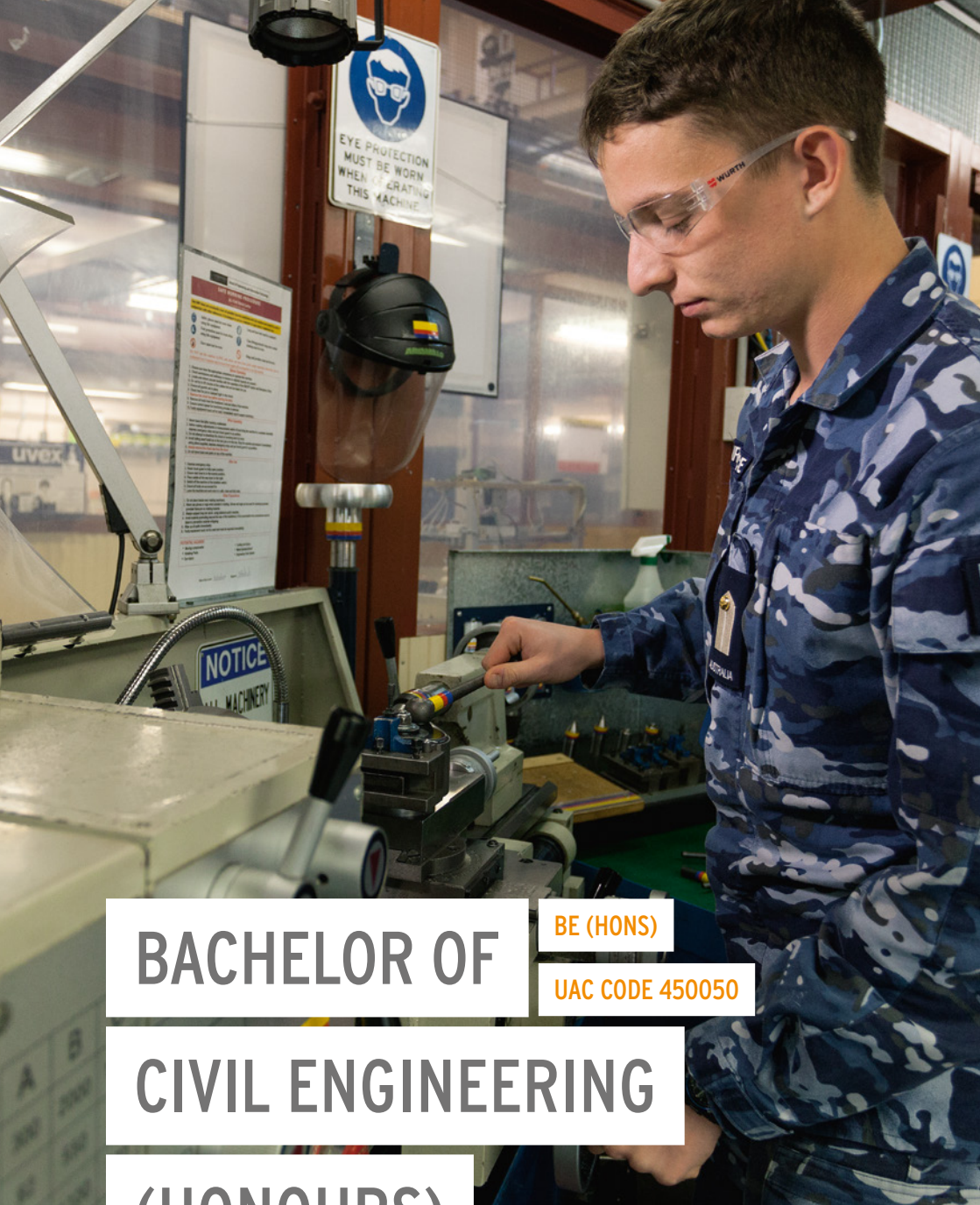
Army Aeronautical Engineering graduates are most likely to be involved in the maintenance and repair of ARH-Tiger, Chinook and MRH-90 Taipan helicopters or the Army's rapidly growing fleet of unmanned aerial vehicles.



AIR FORCE

Air Force Aeronautical Engineering graduates may be involved in the operation and maintenance of aircraft ranging from heavy transporters to multi-role strike aircraft. They will then become responsible for the airworthiness and modification of aircraft and engines, or the acquisition and introduction of new equipment into the Service.

*OP = Overall Position (QLD only). Please note this minimum OP should be used as a general guide only as the conversion can vary from year to year. The exact terminology for assumed subject knowledge varies by state.



BACHELOR OF

BE (HONS)

UAC CODE 450050

CIVIL ENGINEERING

(HONOURS)

INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
85 MIN	8*

DURATION

 Four years full time

ASSUMED SUBJECT KNOWLEDGE

- Mathematics
- Physics
- Chemistry is desirable, but not essential

SUBJECT OVERVIEW

The Civil Engineering degree provides students with professional engineering design, construction and management skills. As the ADF becomes progressively more technologically-based, the education provided in a Civil Engineering degree will be in greater demand.

Much of the work carried out by military civil engineers is comparable to that undertaken by their civilian counterparts. This includes the design and construction of facilities such as roads, bridges, airfields, buildings, water supply and waste treatment facilities, structures of all types, and the associated planning and management of projects.

CIVIL ENGINEERING IN AN ADF CAREER

Graduates in Civil Engineering take responsibility for the design and construction of infrastructure, base facilities, temporary runways and field engineering associated with ADF projects and military activities. Environmental management plays a major part in these projects, and you may also get involved with development and peacekeeping activities in the South Pacific and elsewhere in the world.



ARMY

Army graduates generally join as an Engineering Officer in the Royal Australian Engineers (RAE) corps, but can also become an Army Officer, with a range of specialisations and corps available.

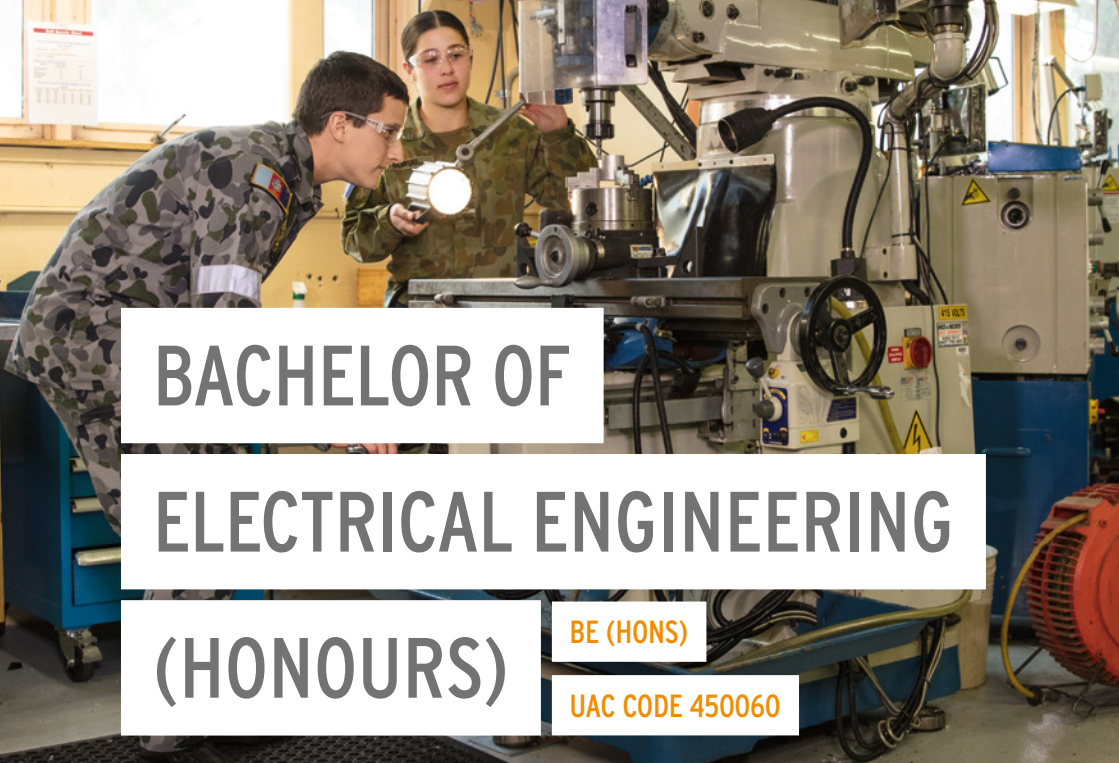
As an Engineering Officer, you'll lead and manage a team of soldiers who are responsible for supplying clean water, constructing accommodation, building airfields, restoring harbours, and improving defence against nuclear, biological and chemical attacks. As well as providing infrastructure within Australian borders, during your early career you are likely to have opportunities for overseas deployments.



AIR FORCE

Air Force Civil Engineers play a major role in managing the infrastructure of the Air Force. The projects you will be responsible for could be of a specialised engineering nature (e.g. aircraft pavements, hangars, hospitals and pollution control) or they could involve the management of whole facilities.

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BACHELOR OF ELECTRICAL ENGINEERING (HONOURS)


BE (HONS)

UAC CODE 450060

INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
85 MIN	8*

DURATION

 Four years full time

ASSUMED SUBJECT KNOWLEDGE

- Mathematics
- Physics
- Chemistry is desirable, but not essential

SUBJECT OVERVIEW

The Bachelor of Electrical Engineering program is built on a foundation of mathematics, computer science and physical science.

A small component of Electrical Engineering is introduced in the first year, with progressively larger components in the second and third years. The final year is devoted exclusively to Electrical Engineering courses.

In this final year, you'll have the option to specialise in areas such as communications, surveillance and radar, computer engineering and guided weapons electronics. You'll also undertake a major project supervised by a member of academic staff.

UNSW Canberra provides one of the best Electrical Engineering programs available and is supported by a well-equipped laboratory and excellent library facilities.



ELECTRICAL ENGINEERING

IN AN ADF CAREER



NAVY

In conjunction with the technical sailors in your charge, as an Electronics Engineer in the Navy you will be responsible for looking after weapon, communication and sensor systems on the Navy's warships. Opportunities also exist for you to become an Electronics Engineer Submariner, serving with the Deep Elite.

Regardless of your choice, these complex warships and submarines will present you with many rewarding challenges, as will the demanding conditions in which you could work. Over time, there will be opportunities for a range of 'shore' postings, which could include working on projects to acquire new warships, or new naval systems to be fitted to Australia's existing warships and submarines.



ARMY

Army graduates can join as an Army Officer, with a range of specialisations and corps available, or as an Electrical Engineer in the Royal Australian Electrical and Mechanical Engineers (RAEME) corps.

Regardless of your choice, you'll find yourself leading a number of technical soldiers responsible for the maintenance and support

of any one of a number of systems as diverse as helicopters, ground-based telecommunications and radar systems, and weapon systems. You may eventually find yourself employed as an engineering authority in the acquisition projects that keep the Army at the forefront of technology.



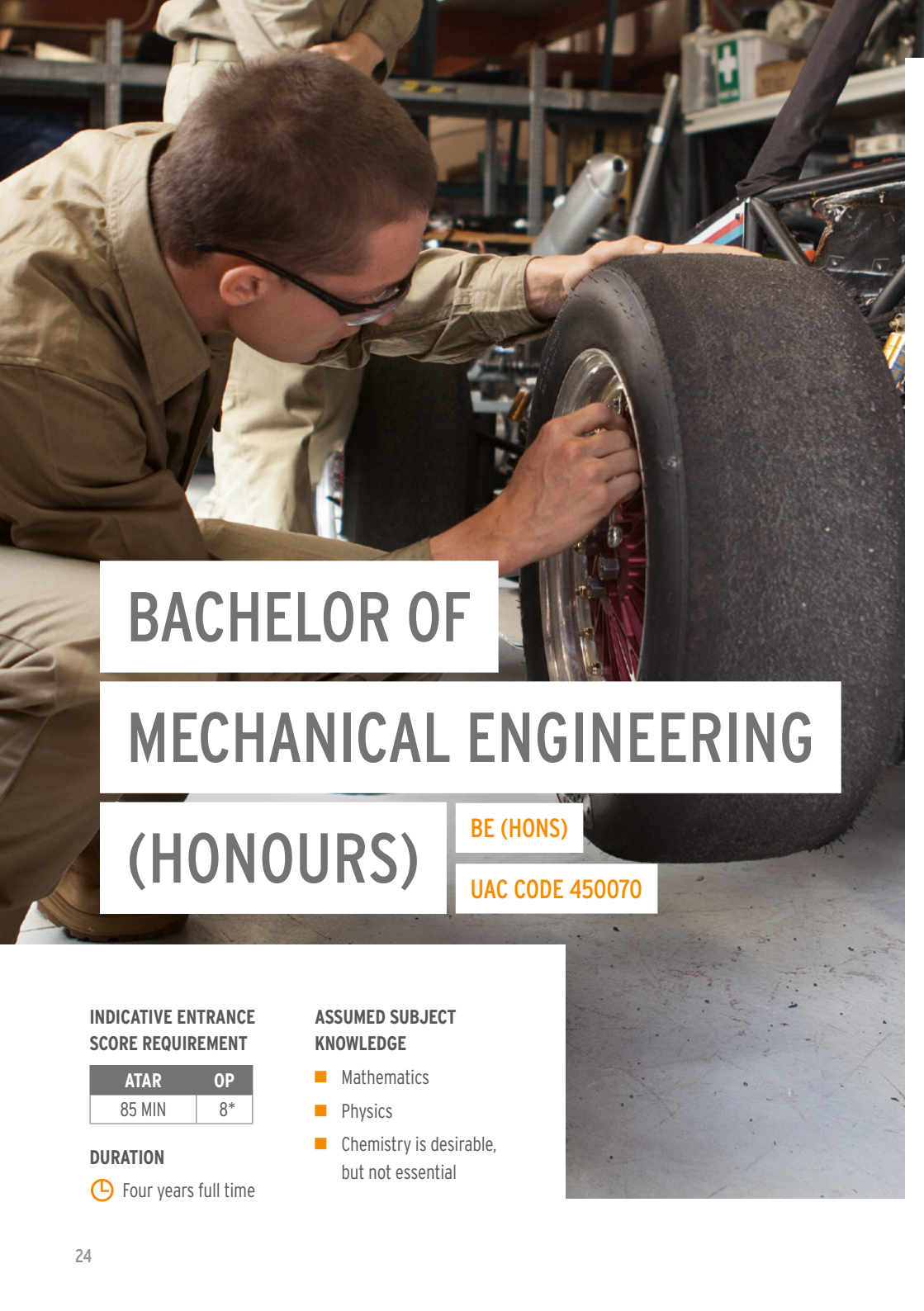
AIR FORCE

As a graduate of the Electrical Engineering degree in the Air Force, you'll have a fantastic range of employment options when you graduate from ADFA. As an Electronics Engineer, you may work with systems responsible for airborne electrical generation and distribution, radar and weapon systems, aircraft flight controls systems and airborne communications systems.

As an Armament Engineer you'll manage and maintain the advanced weapon systems deployed on fighter aircraft, including missiles, bombs, torpedoes and mounted guns; and the computers that control them.

Regardless of your choice, you'll generally lead a group of highly-skilled technical airmen and airwomen during your early years and move into technical acquisition and project management roles later in your career.

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BACHELOR OF MECHANICAL ENGINEERING (HONOURS)

BE (HONS)

UAC CODE 450070

INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
85 MIN	8*

DURATION

 Four years full time

ASSUMED SUBJECT KNOWLEDGE

- Mathematics
- Physics
- Chemistry is desirable, but not essential



SUBJECT OVERVIEW

The Mechanical engineering degree is built on a branch of engineering that is concerned with machines and the production of power, and particularly with forces and motion. A core task of a Mechanical Engineer is to devise new and better ways to extract mechanical power from heat and to use that power to perform a useful task.

Mechanical Engineers are required to understand a number of fields, such as: thermodynamics, mechanical systems dynamics, properties of solid materials, fluid dynamics, design and management.

MECHANICAL ENGINEERING

IN AN ADF CAREER

All three Services employ Mechanical Engineers to maintain and repair an extremely diverse and sophisticated range of equipment, including land transport vehicles, ships, tanks, armoured personnel carriers and weapon systems.

No other organisation in Australia has such a complex and challenging equipment inventory operating under such demanding conditions.



NAVY

You will undertake courses to enhance your professional development as a Marine Engineer or Marine Engineer Submariner. In these roles you will be the technical authority on board the ship or submarine, responsible for the vessel's structures, propulsion systems, electrical generation and distribution, and domestic and associated mechanical services.

Your responsibilities will also include the main and auxiliary machinery, engines, automatic and remote control systems, hydraulics, air conditioning and refrigeration, ventilation systems and electrical power generation and conversion equipment.



ARMY

There are many roles in the Army available to graduates of Mechanical Engineering. You can join as an Army Officer, typically as an Electrical and Mechanical Officer, however a range of specialisations and corps are available, or you can join as an Aeronautical Engineer or Mechanical Engineer.

Regardless of your choice, you will lead and manage a team of soldiers who are responsible for the management, repair and recovery service for all equipment operated by the Army. Your team of soldiers will repair and maintain equipment as diverse as tanks, trucks and armoured personnel carriers, helicopters, radios, radars and computers, artillery guns and missile systems.



AIR FORCE

Through an Air Force Bachelor of Mechanical Engineering, you'll play a major role in managing the equipment of the Air Force, which could include aircraft structures, propulsion systems, ground support equipment, weapons and weapon systems.

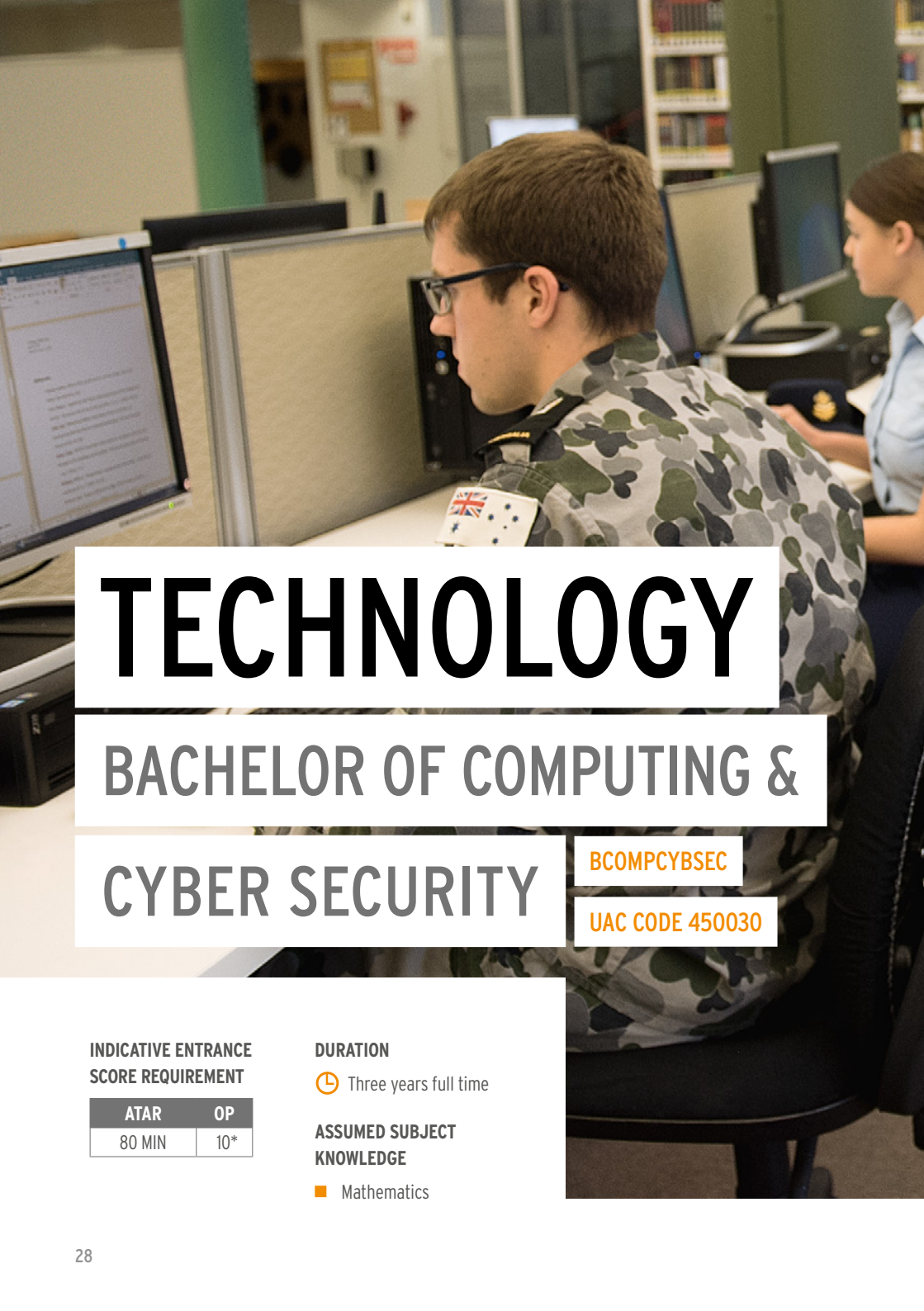
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You get lots of
opportunities
to lead plus
experience in
different areas
for future
careers.



LUKE, NAVY MARITIME WARFARE OFFICER

BACHELOR OF IT



TECHNOLOGY

BACHELOR OF COMPUTING &

CYBER SECURITY

BCOMPCYBSEC

UAC CODE 450030

INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
80 MIN	10*

DURATION

 Three years full time

ASSUMED SUBJECT KNOWLEDGE

 Mathematics

SUBJECT OVERVIEW

The Bachelor of Computing and Cyber Security is built on solid computer science and mathematics fundamentals with a focus on both theoretical foundations and practical approaches to computation and its applications within security. In this program, you'll first apply these techniques to gaming and then later learn more about hardware, systems, networking and the internet, and how to secure such environments.

The design methods, tools and programming ability gained can be applied to many kinds of computer applications. In a final-year capstone team project you will be able to select from a wide range of ADF and civilian application domains in which to develop these abilities in computing and cyber security. You will use state of the art equipment in all your security and forensics courses.

The Bachelor of Computing and Cyber Security program will help you develop lifelong skills including creativity, problem-solving ability, critical thinking and communication skills, all of which are important not only in a cyber security or cyber war environment but in all professions. It will prepare you to deal with technical issues in a computing environment, and help you develop intellectual and practical problem-solving skills through studies across a range of computing specialisations.

COMPUTING AND CYBER SECURITY

IN AN ADF CAREER

As a graduate of the Bachelor of Computing and Cyber Security degree you will have an intellectual advantage for all relevant careers in the ADF, given the planned introduction of new capability and the increased influence of the information environment on military operations. Most importantly, you will possess an excellent combination of technical knowledge and practical expertise for specific ADF careers that leverage advantage from Computing and Cyber Security. These include the following roles:

NAVY

- Helicopter Pilot
- Intelligence Officer
- Maritime Aviation Warfare Officer
- Maritime Logistics Officer
- Maritime Warfare Officer
- Maritime Warfare Officer Submariner

ARMY

Army Officer, in one of 13 specialisations, including Signals, Aviation and Intelligence

AIR FORCE

- Air Traffic Controller (Mission Controller)
- Cyber Warfare Officer
- Ground Defence Officer
- Mission Aircrew
- Pilot

For all Pilots, the practical flying components are undertaken after graduating from ADFA.

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A photograph of two female students in military-style uniforms working on a project in a workshop. The student on the left is wearing a blue camouflage uniform with a patch on the sleeve. The student on the right is wearing a green camouflage uniform and safety glasses. They are both focused on a task, with the student on the right holding a small object. The background shows shelves with various tools and equipment.

BACHELOR OF

BTECH (AERO)

UAC CODE 450080

**TECHNOLOGY (AERONAUTICAL
ENGINEERING)**

INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
85 MIN	8*

DURATION

 Three years full time

ASSUMED SUBJECT KNOWLEDGE

- Mathematics
- Physics
- Chemistry is desirable, but not essential

SUBJECT OVERVIEW

This degree program is designed for those wishing to work in the ADF as an aeronautical engineering technologist but not necessarily as a fully-qualified engineer. Engineers Australia accredits this three-year technology program at the Engineering Technologist level.

At the discretion of the Services, there is provision for you, if you have completed the Bachelor of Technology, to upgrade to a Bachelor of Engineering degree in Aeronautical Engineering by undertaking 18 months of further study at a later stage.

This degree should not be confused with the Bachelor of Technology (Aviation) degree, which is designed specifically for aircrew such as Pilots, Air Traffic Controllers (Mission Controllers) and Mission Aircrew.

AERONAUTICAL TECHNOLOGY

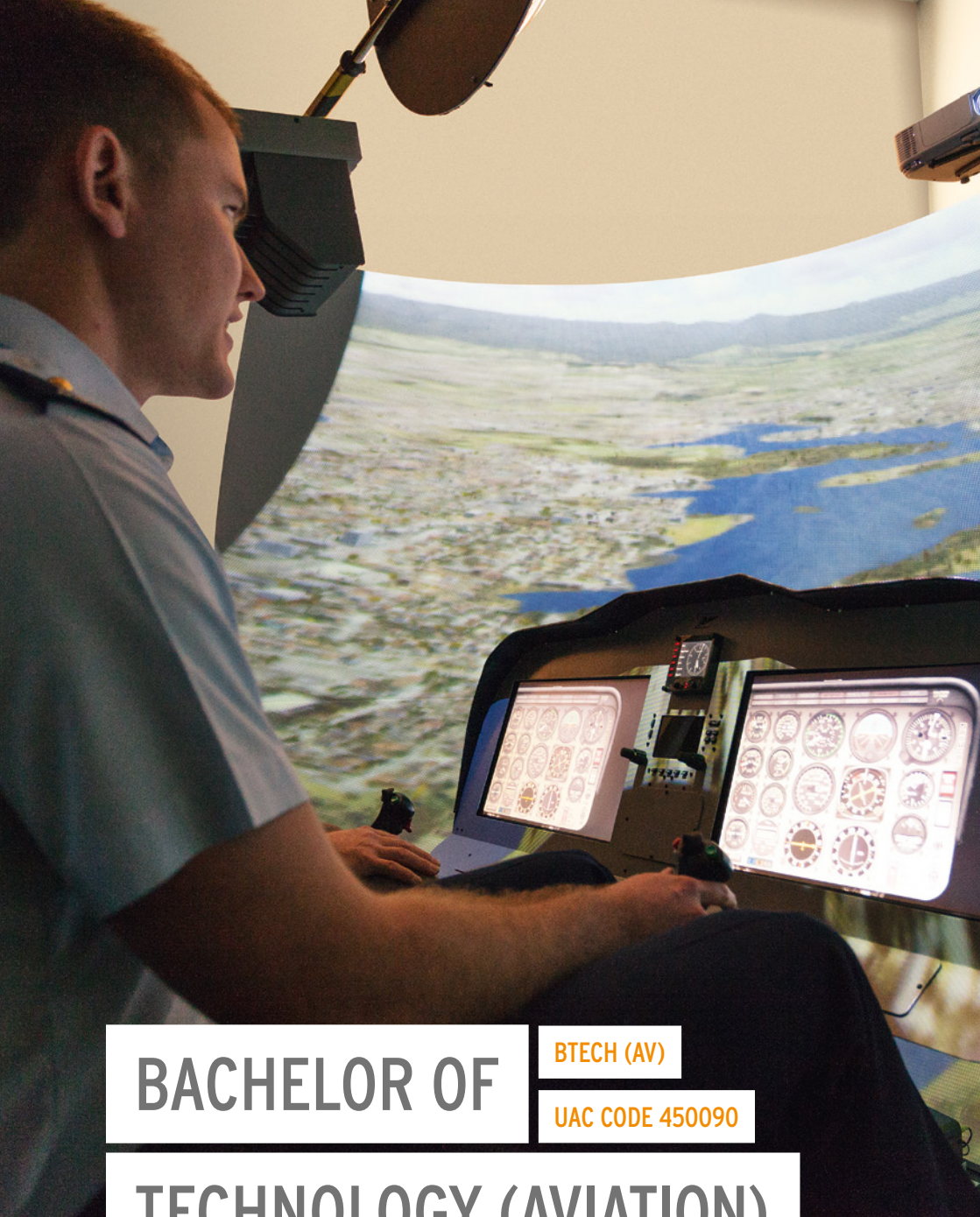
IN AN ADF CAREER

The Bachelor of Technology (Aeronautical Engineering) is primarily undertaken by Air Force officer cadets who intend to work as aircrew and wish to enhance their understanding of the operation and performance of aircraft.

However, the program is also available to Navy midshipmen and Army officer cadets, and graduates are employed in many technical branches of the ADF.

For all Pilots, the practical flying components are undertaken after graduating from ADFA.

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BACHELOR OF

BTECH (AV)

UAC CODE 450090


TECHNOLOGY (AVIATION)



INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
80 MIN	10*

DURATION

 Three years full time

ASSUMED SUBJECT KNOWLEDGE

- Mathematics
- Physics
- Chemistry is desirable, but not essential

SUBJECT OVERVIEW

The Bachelor of Technology (Aviation) involves three years of study commencing with a common program of foundation science and engineering courses with other first-year technology and engineering students. In the second and third years, the programs diverge into their specialties, with the Bachelor of Technology (Aviation) focusing on human factors in the aviation discipline.

There is also an emphasis on the function of Pilots, Mission Aircrew, Maritime Aviation Warfare Officers and Air Traffic Controllers (Mission Controllers) and their role in aviation, in infrastructure and safety management systems. Other streams such as aerodynamics and aviation systems often incorporate problem-based learning informed by academic research and industrial practice.

Electives and a final-semester project enable students to pursue particular interests both within and outside the specialist discipline.

AVIATION TECHNOLOGY

IN AN ADF CAREER

Midshipmen and officer cadets who undertake a Bachelor of Technology in Aviation are primarily Helicopter Pilots or Maritime Aviation Warfare Officers in the Navy, or Mission Aircrew or Air Traffic Controllers (Mission Controllers) in the Air Force.

For all Pilots, the practical flying components of training are undertaken after graduating from ADFA.

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A close-up portrait of a young woman with dark hair tied back, wearing a military uniform with a camouflage pattern. She is smiling and looking slightly to the right. The background is blurred.

OTHER FIELDS OF STUDY

BACHELOR OF ARTS

BA

UAC CODE 450001

INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
75 MIN	12*

DURATION

 Three years full time

ASSUMED SUBJECT KNOWLEDGE

■ English

SUBJECT OVERVIEW

This Bachelor of Arts degree aims to give you strong written and oral communication skills, the capacity to research and think critically, and the ability to work independently and collaboratively. These are all essential attributes of effective leaders in the Australian Defence Force.

Bachelor of Arts midshipmen and officer cadets must complete two majors from the following:

- Business
- English and Media Studies
- Indonesian Studies
- Geography
- History
- International and Political Studies

ARTS IN AN ADF CAREER

Arts degrees are flexible and allow you to keep your options open. They give you the analytical skills to be an effective leader and manager, therefore can lead to a variety of officer roles across the Navy, Army and Air Force.

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A close-up, profile view of a young man with short, light brown hair and blue eyes. He is wearing a green and brown camouflage military jacket. He is looking off-camera to the left with a serious expression. In the background, other people in military uniforms are blurred.

BACHELOR OF

BUSINESS


BBUS

UAC CODE 450010

INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
80 MIN	10*

DURATION

 Three years full time

SUBJECT OVERVIEW

The Bachelor of Business is designed to enhance business acumen among future leaders and managers in the ADF, and provide you with the capacity to interact effectively with external business providers. It aims to lay solid foundations in communication, numeracy and general problem-solving capabilities.

The degree is built within a specifically business-oriented context of study, and will develop your knowledge in a diverse range of areas associated with organisational management and leadership. When taking this degree, you will become familiar with bodies of knowledge that will enhance your capacity to manage Defence business throughout your ADF career.

BUSINESS IN AN ADF CAREER

A Bachelor of Business positions you to work within the business processes of the ADF and to interact with external service providers. This is particularly valuable if you wish to become involved in acquisition and procurement, project management, logistics and the management of people.

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BACHELOR OF

SCIENCE


BSC

UAC CODE 450020

INDICATIVE ENTRANCE SCORE REQUIREMENT

ATAR	OP
75 MIN	12*

DURATION

 Three years full time

ASSUMED SUBJECT KNOWLEDGE

- Mathematics (for Mathematics, Chemistry, Aviation, Physics and Oceanography majors)
- Physics (for Aviation, Physics and Oceanography majors)

SUBJECT OVERVIEW

Science is the understanding of the physical universe (from subatomic particles and microbes through to the planet's environment and the origin of the universe itself), and human interactions with it. Just as important is the scientific process by which this understanding is gained.

It is the foundation of the modern technologies that enhance the quality of lives and provide ever more sophisticated means of applying the scientific process. In addition, science is crucial in the control of disease, biotechnology, new sustainable energy sources, information technology and the management of precious natural resources.

A Bachelor of Science degree will help you develop lifelong skills including creativity, problem-solving ability, critical thinking and communication skills that will be useful not only in a scientific environment but in all professions including the military.

The ADF requires leaders who are prepared to deal with technical and management issues that will often require scientific knowledge and the intellectual and practical problem-solving skills developed through studies in physical, environmental and mathematical sciences. Should you excel in your Bachelor of Science degree, you may have the opportunity to undertake an Honours degree, which is an extra year of study. This is subject to the needs of the individual Services.

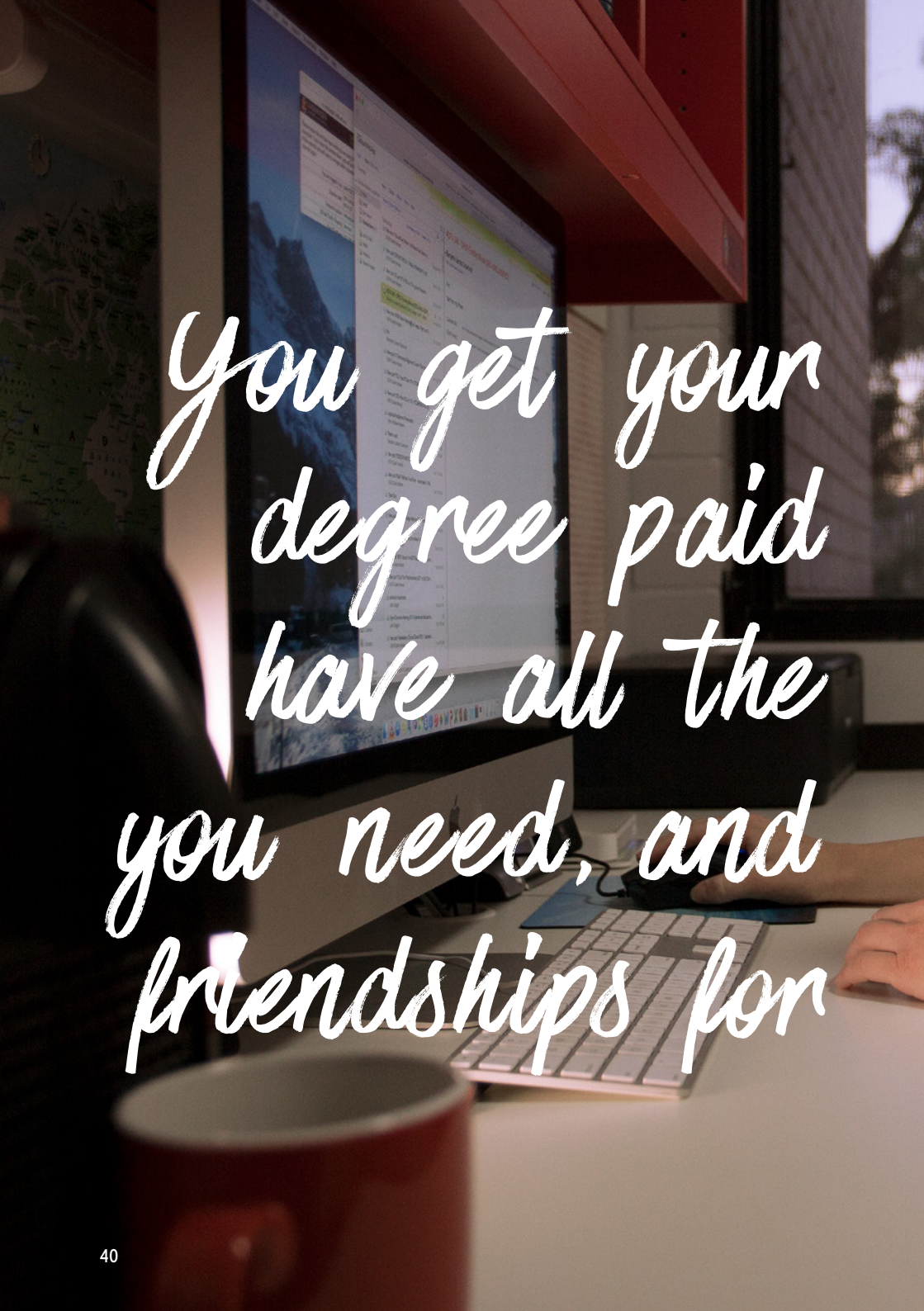
In the Bachelor of Science course you will have to complete two disciplines from the following:

- Aviation
- Chemistry
- Computer Science
- Geography
- Information Systems
- Mathematics
- Oceanography
- Operations Research
- Physics

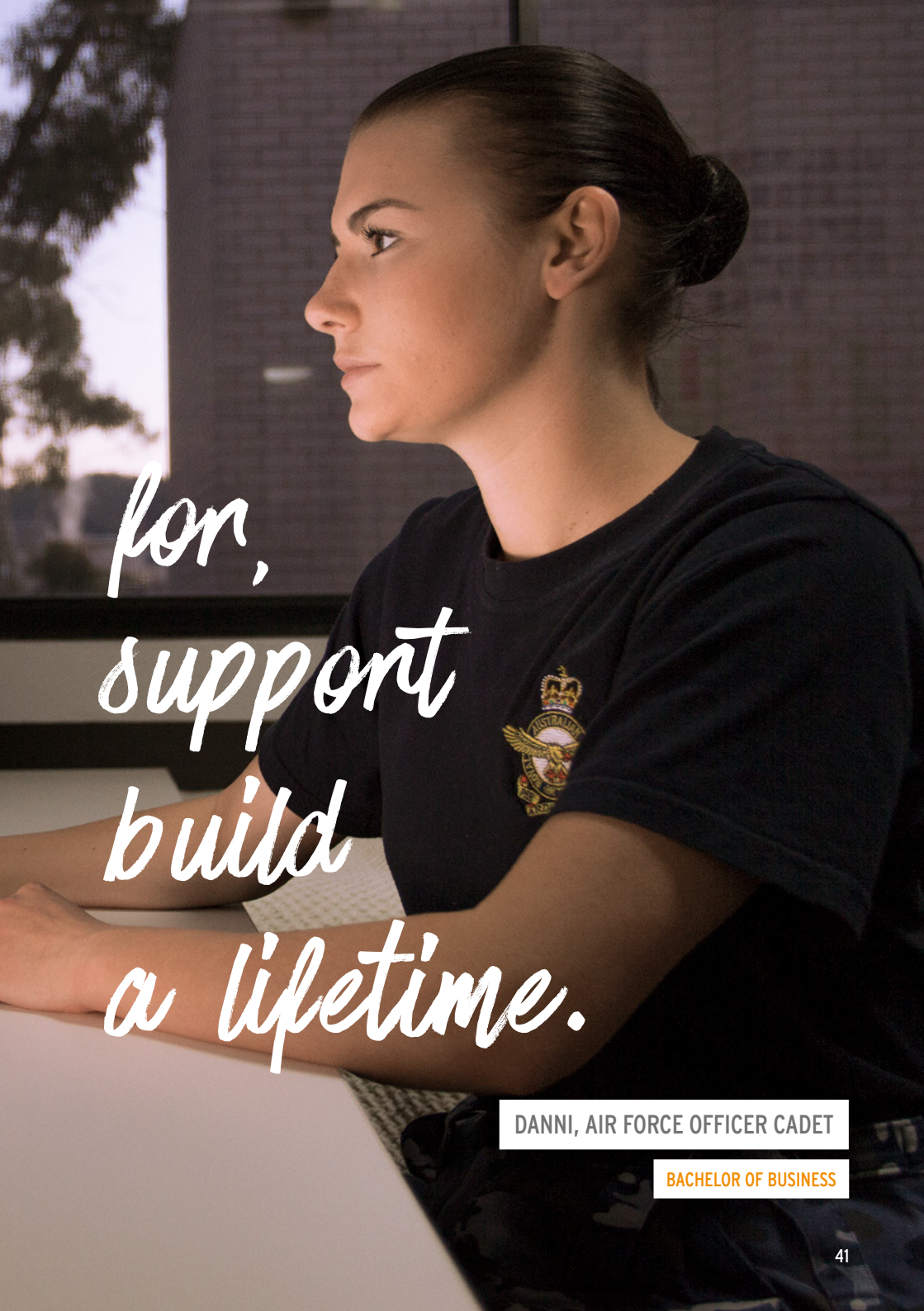
SCIENCE IN AN ADF CAREER

Science degrees are flexible and allow you to keep your options open. They give you the analytical and problem solving skills required to be an effective leader and manager, therefore can lead to a variety of officer roles across the Navy, Army and Air Force.

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A photograph of a person working at a desk. A large computer monitor displays a software interface with various panels and text. In the foreground, a red mug is partially visible. The text is overlaid in a white, cursive font.

*You get your
degree paid
have all the
you need, and
friendships for*



for,
support
build
a lifetime.

DANNI, AIR FORCE OFFICER CADET

BACHELOR OF BUSINESS



EMBARK ON A RICH & REWARDING CAREER

An ADFA degree opens up an exciting range of opportunities in the Navy, Army and Air Force. From a career perspective, this world-class qualification will set you up for life.

Here you can explore the jobs each degree can lead to. For full details about each role visit the Defence Jobs website.

 '<SERVICE> <JOB TITLE>'

UNSW DEGREE	NAVY	ARMY	AIR FORCE
ENGINEERING			
Aeronautical Engineering	Aerospace Engineer Marine Engineer Marine Engineer Submariner	Aeronautical Engineer Army Officer, in any specialisation or corps	Aeronautical Engineer Armament Engineer
Civil Engineering		Army Officer, in any specialisation or corps	Airfield Engineer
Electrical Engineering	Aerospace Engineer Electronics Engineer Electronics Engineer Submariner Marine Engineer Marine Engineer Submariner	Electrical Engineer Army Officer, in any specialisation or corps	Armament Engineer Electronics Engineer
Mechanical Engineering	Aerospace Engineer Marine Engineer Marine Engineer Submariner	Aeronautical Engineer Mechanical Engineer Army Officer, in any specialisation or corps	Aeronautical Engineer Armament Engineer

UNSW DEGREE	NAVY	ARMY	AIR FORCE
TECHNOLOGY			
Computing & Cyber Security	Helicopter Pilot	Army Officer, in any specialisation or corps	Air Traffic Controller (Mission Controller)
	Intelligence Officer		Ground Defence Officer
	Maritime Aviation Warfare Officer		Human Resource Manager
	Maritime Logistics Officer		Intelligence Officer
	Maritime Warfare Officer		Logistics Manager
Technology (Aeronautical Engineering)	Maritime Warfare Officer	Helicopter Pilot	Mission Aircrew
	Maritime Warfare Officer		Pilot
	Submariner		Air Traffic Controller (Mission Controller)
			Ground Defence Officer
			Human Resource Manager
Technology (Aviation)	Helicopter Pilot		Intelligence Officer
	Maritime Aviation Warfare Officer		Mission Aircrew
			Pilot
			Air Traffic Controller (Mission Controller)
			Ground Defence Officer
OTHER FIELDS OF STUDY			
Arts	Helicopter Pilot	Army Officer, in any specialisation or corps	Air Traffic Controller (Mission Controller)
	Intelligence Officer		Ground Defence Officer
	Maritime Aviation Warfare Officer		Human Resource Manager
	Maritime Logistics Officer		Intelligence Officer
	Maritime Warfare Officer		Logistics Officer
Business	Maritime Warfare Officer		Mission Aircrew
	Submariner		Air Traffic Controller (Mission Controller)
			Ground Defence Officer
			Intelligence Officer
			Mission Aircrew
Science			Pilot
			Air Traffic Controller (Mission Controller)
			Ground Defence Officer
			Intelligence Officer
			Mission Aircrew



SPECIAL PROGRAMS AND AWARDS

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CHIEF OF DEFENCE FORCE

STUDENTS PROGRAM

THE PROGRAM FOR ACADEMICALLY

GIFTED STUDENTS

UNSW Canberra at ADFA offers an exciting range of enhanced undergraduate degree options to high performers in Arts, Business, Engineering, Science and Technology.

The Chief of the Defence Force Students Program (CDFSP) provides academically gifted midshipmen and officer cadets with a rich and challenging educational experience that will develop their critical thinking and research skills.

If you are eligible for the CDFSP, you will undertake individual research projects working closely with academic staff on projects from their area of interest. Upon completion of your degree, you will receive a special award that reflects your involvement in this prestigious program.

CDFSPs are offered across all four schools of the Academy and provide an exceptional opportunity for gifted students to reach their full academic potential.

ENTRY AND PROGRESSION

REQUIREMENTS

You will be invited to join the CDF program if you have achieved the following entrance scores. Please note that HSC Plus bonus points cannot be used for entry into this program.

UNSW DEGREE	ATAR OR OP*
Bachelor of Arts	ATAR 95 or OP4*
Bachelor of Business	ATAR 95 or OP4*
Bachelor of Computing and Cyber Security	ATAR 98 or OP2*
Bachelor of Engineering (all specifications)	ATAR 98 or OP2*
Bachelor of Science	ATAR 95 or OP4*
Bachelor of Technology (Aeronautical)	ATAR 98 or OP2*

* OP = Overall Position (QLD only)

If you do not initially obtain a high-enough entrance score for admission into the CDFSP, yet achieve outstanding academic results during your first year of study at ADFA, you may apply to transfer from a standard degree to the program Midyear 1 or at the start of Year 2.

All students enrolling in the CDFSP are expected to maintain a high level of academic and military performance over all sessions in order to remain in the program. If you do not maintain the required level of performance (which varies across the degree programs), you will be transferred to the standard degree program offered at ADFA with credit for all courses completed.



ADJUSTMENT FACTORS

(BONUS POINTS)

UNSW has three schemes that allow bonus points to be added to your Australian Tertiary entrance rank (ATAR/OP) to give you a higher entrance score. This adjusted score is then used to assess your eligibility.

A maximum total of 10 bonus points is available to applicants who apply for a UNSW Canberra at ADFA course.

HSC PLUS

This is a national scheme for Year 12 students that recognises the strong correlation between subject performance and preparation for, and success in, first year university studies. If you have done well in relevant Year 12 subjects you may qualify for up to 5 bonus points.

To find out about eligibility and how points are awarded:

 **'UNSW HSC PLUS'**

ELITE ATHLETES AND PERFORMERS

This scheme recognises high school leavers who have excelled in areas of sport, academia, performance, leadership, and/or music at an elite level in years 11 and/or 12. If you are a classic 'all-rounder' you may qualify for up to 5 bonus points.

Applications must be made to UNSW before 30 November. To find out about eligibility and how to apply:

 **'UNSW ELITE ATHLETES AND PERFORMERS'**

EDUCATIONAL ACCESS SCHEME

Part of UNSW's commitment to equal opportunity and affirmative action in education, this scheme provides an alternative method of entry to higher education if you have experienced a long-term educational disadvantage. It offers up to 10 bonus points.

Applications must be made through UAC. To find out about eligibility and how to apply:

 **'UAC EDUCATIONAL ACCESS SCHEME'**




ADFA EDUCATION AWARD

This award - which comprises a high-end tablet device or similar - is presented annually to Year 12 students in recognition of leadership potential and academic and/or sporting achievements exhibited during Year 11.

Fifty awards are presented annually to high-performing students who have applied for ADFA, and each recipient's school receives a plaque.

To find out about eligibility, dates and how to apply:

 **'ADFA EDUCATION AWARD'**

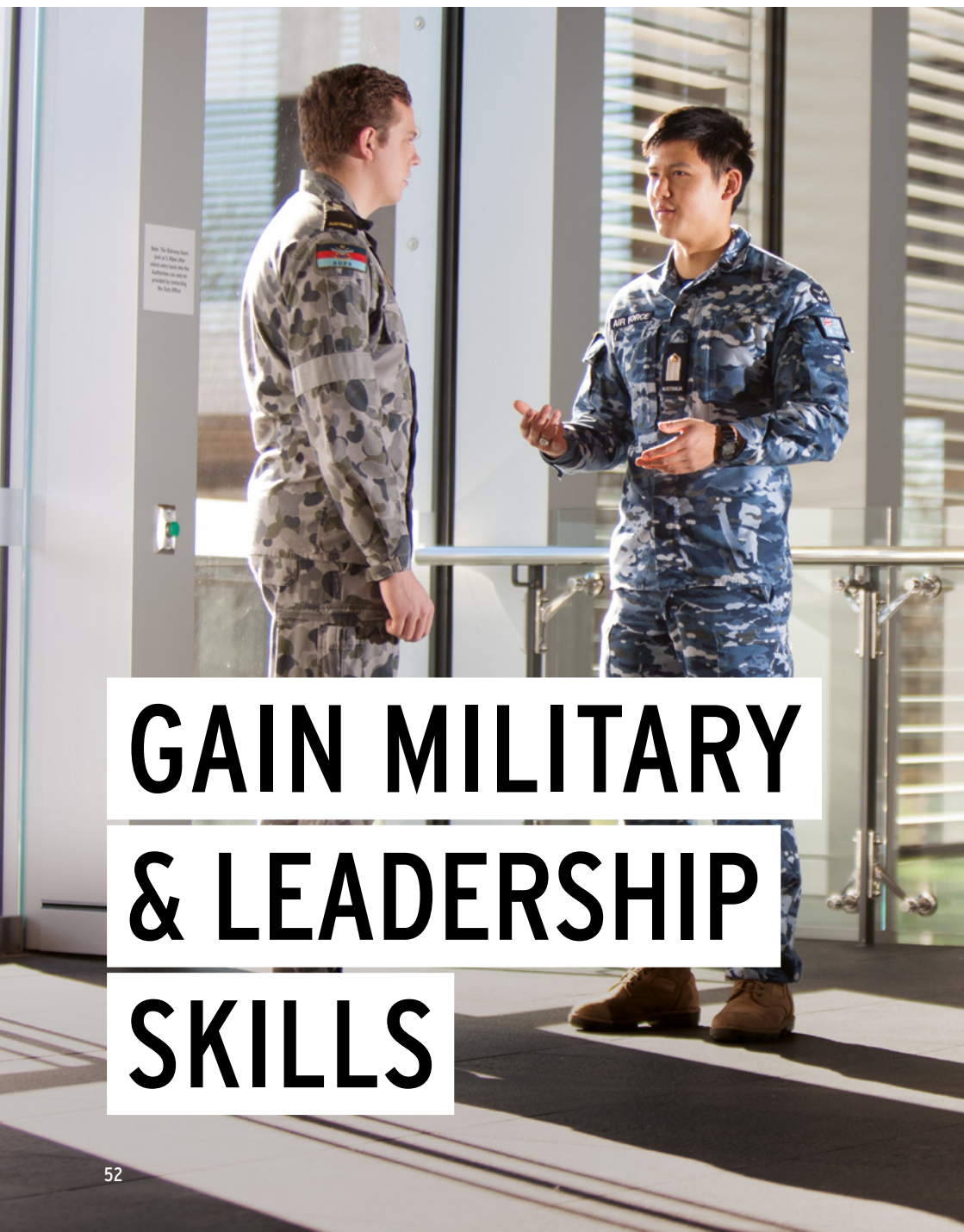
The background of the page is a photograph of an indoor rock climbing wall. The wall is made of a textured, brown material with various colored climbing holds (green, yellow, red, purple). Several people in military uniforms are visible. In the foreground, a person in a black t-shirt and blue camouflage pants is standing, wearing a white helmet and a blue harness. To their right, another person in a red t-shirt and green camouflage pants is also wearing a white helmet and a blue harness. In the background, another person in a black t-shirt and green camouflage pants is visible. The floor is a dark grey. In the bottom left corner, there is a white helmet and a blue harness. In the bottom right corner, there is a white helmet and a blue harness. The text is written in a white, cursive font and is centered on the page.

We've got
footy fields,
basketball courts,
a swimming pool
and even a rock
climbing wall.



MADDIE, ARMY OFFICER CADET

BACHELOR OF BUSINESS



GAIN MILITARY & LEADERSHIP SKILLS



AT ADFA YOU NOT ONLY STUDY FOR A TERTIARY DEGREE, BUT YOU ALSO UNDERTAKE TWO TYPES OF MILITARY TRAINING TO DEVELOP THE FUNDAMENTAL KNOWLEDGE, SKILLS AND ATTRIBUTES REQUIRED TO BECOME A LEADER IN THE NAVY, ARMY OR AIR FORCE:

1 Academy Military Education and Training - AMET

2 Single Service Training - SST

1

ACADEMY MILITARY EDUCATION AND TRAINING (AMET)

The AMET program is a three-year program conducted in parallel with the academic program. It is structured along the key themes of:

- Leadership development (followership, teamwork, character development)
- Military skills (drill, ceremonial, weapons training and physical training)
- Military citizenship (communications, ethics, justice, mental and physical health)
- The Defence Environment (introduction to the ADF, capabilities and planning)



2

SINGLE SERVICE TRAINING

SST gives you the opportunity to experience your chosen Service, and learn skills that are specific to the Navy, Army or Air Force. It generally takes place for varying periods at the beginning and end of each academic year.

NAVY

Before commencing ADFA studies, Navy students are required to undertake the 22-week New Entry Officer Course and six months of Navy familiarisation. This will prepare you for life in the Navy and includes a four-week sea training deployment.

Then once at ADFA, SST covers areas such as:

YEAR ONE

- Military and mariner skills
- Teamwork and leadership
- Routines, culture and traditions
- Various activities relevant to your ADFA course

YEARS TWO AND THREE

- More activities relevant to your course at sea, attached to shore establishments, or with aviation squadrons.

ARMY

Army SST gives you the opportunity to experience the Army in hands-on situations.

YEAR ONE

- Weapon handling, field craft and first aid
- Radio communications and navigation
- Outdoor fitness and survival exercises

YEAR TWO

- Leadership training
- Work experience with an Army brigade

YEAR THREE

- Further leadership training
- Weapon system training
- Combat fitness

AIR FORCE

Air Force SST gives you the opportunity to experience life in the Air Force close up.

YEAR ONE

- Visits to RAAF bases

YEAR TWO

- Military law
- Leadership
- Field Mastery
- Air Power and Force Element Groups

YEAR THREE

- Air Power
- Flight Commander training and simulation
- Performance and conflict management
- Military management and self-mastery

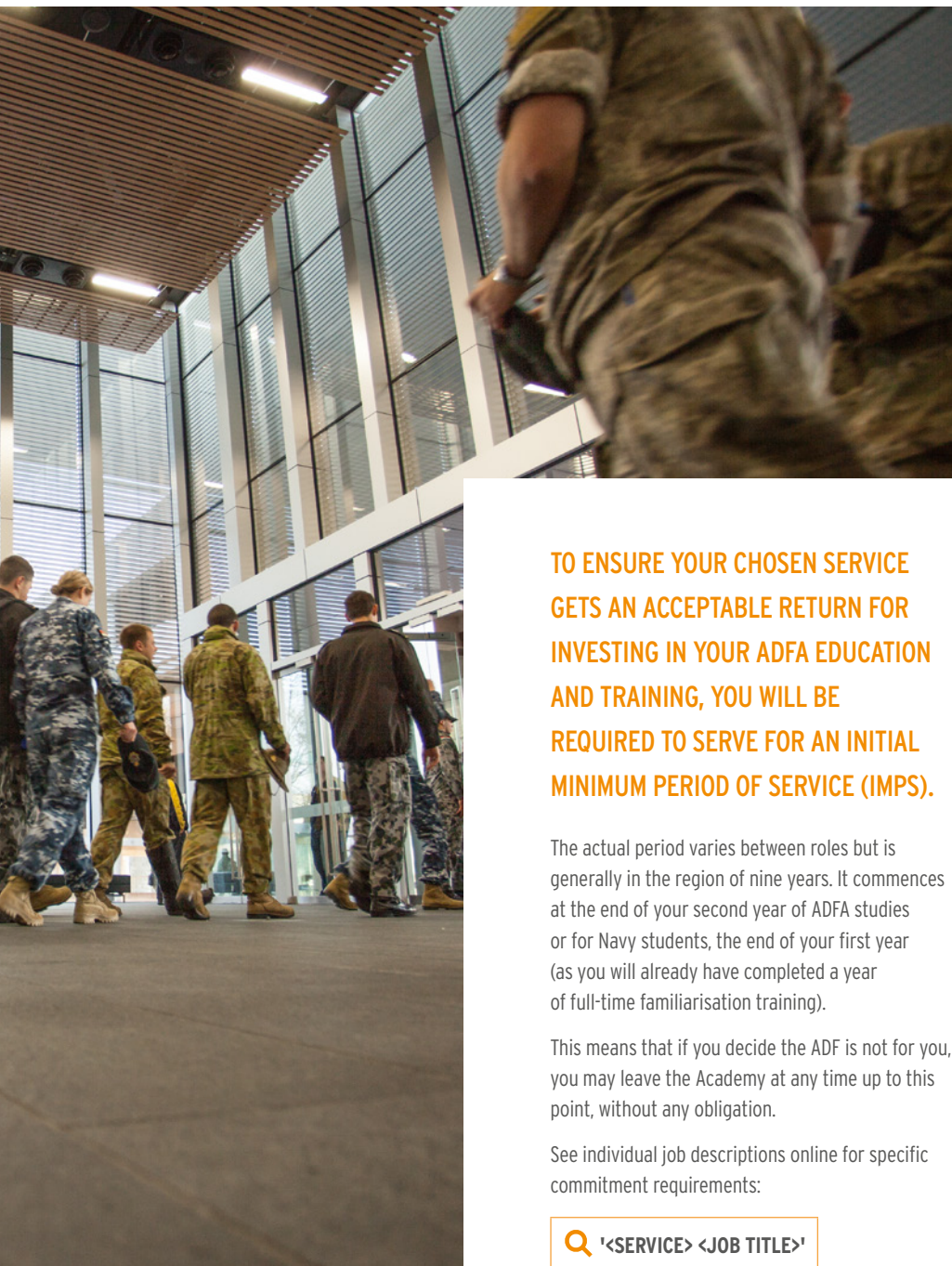




YOUR

COMMITMENT

TO THE ADF



TO ENSURE YOUR CHOSEN SERVICE GETS AN ACCEPTABLE RETURN FOR INVESTING IN YOUR ADFA EDUCATION AND TRAINING, YOU WILL BE REQUIRED TO SERVE FOR AN INITIAL MINIMUM PERIOD OF SERVICE (IMPS).

The actual period varies between roles but is generally in the region of nine years. It commences at the end of your second year of ADFA studies or for Navy students, the end of your first year (as you will already have completed a year of full-time familiarisation training).

This means that if you decide the ADF is not for you, you may leave the Academy at any time up to this point, without any obligation.

See individual job descriptions online for specific commitment requirements:

 '<SERVICE> <JOB TITLE>'

ELIGIBILITY

CHECK



NATIONALITY

AUSTRALIAN CITIZEN, OR
PERMANENT RESIDENT
ELIGIBLE TO APPLY FOR CITIZENSHIP

Q '<SERVICE> <JOB TITLE>'

Q 'ADFA HANDBOOK'

16+

AGE

AT LEAST 16 WHEN APPLYING
AND 17 ON ENTRY



EDUCATION

COMPLETION OF YEAR 12

PASSES THAT MEET THE REQUIREMENTS OF
YOUR CHOSEN ADF ROLE AND UNSW DEGREE



FITNESS

**SUFFICIENT GENERAL
FITNESS TO PASS A PRE-ENTRY
FITNESS ASSESSMENT**

ADF ACTIVE »



THE ADF ACTIVE APP HELPS YOU
ASSESS YOUR PRE-ENTRY FITNESS
AND GUIDES YOU TO THE LEVELS YOU
NEED FOR THE ASSESSMENT.

FEMALES



MALES



NAVY

**6 PUSH-UPS
20 SIT-UPS (FEET HELD)
6.1 SHUTTLE RUN SCORE**

**15 PUSH-UPS
20 SIT-UPS (FEET HELD)
6.1 SHUTTLE RUN SCORE**



ARMY

**8 PUSH-UPS
45 SIT-UPS (FEET HELD)
7.5 SHUTTLE RUN SCORE**

**15 PUSH-UPS
45 SIT-UPS (FEET HELD)
7.5 SHUTTLE RUN SCORE**



AIR FORCE

**4 PUSH-UPS
20 SIT-UPS (FEET HELD)
6.5 SHUTTLE RUN SCORE**

**10 PUSH-UPS
20 SIT-UPS (FEET HELD)
6.5 SHUTTLE RUN SCORE**



HOW TO APPLY

APPLYING FOR ADFA IS A COMPETITIVE, DUAL APPLICATION PROCESS.

You will be applying for an officer role in the Navy, Army or Air Force, as well as a UNSW degree program; so you will need to submit separate applications that meet the entry requirements of both elements.

The process can take up to 12 months. Therefore it's preferable you apply in Year 11, but you can still apply in Year 12.

THE DUAL APPLICATION PROCESS

ADF PROCESS

CHOOSE AND APPLY FOR YOUR ROLE AT DEFENCEJOBS.GOV.AU, CALL A RECRUITER OR VISIT YOUR LOCAL RECRUITING CENTRE

ATTEND A YOUR OPPORTUNITIES UNLIMITED (YOU) SESSION (PREFERABLY IN YEAR 11 OR EARLY 12)

ATTEND AN ASSESSMENT DAY WITH A PSYCHOLOGICAL INTERVIEW, MEDICAL ASSESSMENT AND ADF INTERVIEW

ATTEND AN OFFICER SELECTION BOARD IN CANBERRA

RECEIVE OFFER FROM THE ADF

ACCEPT ADF OFFER
(SUBJECT TO PASSING PRE-ENTRY FITNESS ASSESSMENT AND FINAL MEDICAL)

UNSW PROCESS

VIEW UNSW CANBERRA DEGREE OPTIONS AND APPLICATION PROCESS AT WWW.UNSW.ADFA.EDU.AU

DECIDE WHICH DEGREE TO APPLY FOR BASED ON YOUR CAREER CHOICE

APPLY FOR UNSW CANBERRA-ADFA THROUGH THE UNIVERSITIES ADMISSIONS CENTRE (UAC) WWW.UAC.EDU.AU


(Opens in August in the year prior to the year of entry)

ACCEPT UNIVERSITIES ADMISSIONS CENTRE OFFER

NEXT STOP CANBERRA. WELCOME TO ADFA!

*I love it
mainly because
you meet
experiences*



A large group of Air Force Officer Cadets in white uniforms are celebrating, with many of them throwing their black caps into the air. The caps are scattered across the blue sky, creating a dynamic and festive scene. The cadets are standing in a line, and some are holding rifles. The background shows green trees and a clear blue sky.

to bits,
of the people
and the
you have.

JOHN, AIR FORCE OFFICER CADET

BACHELOR OF BUSINESS

TAKE THE NEXT STEP

FIND OUT MORE ONLINE

Learn more about the roles, lifestyle, opportunities and rewards on the Defence Jobs website. You'll find the answers to frequently asked questions there too. defencejobs.gov.au/adfa

VISIT A RECRUITING CENTRE

Defence Force Recruiting Centres are located across Australia. Find your nearest here: defencejobs.gov.au/centres

CHAT WITH A RECRUITER

Call **13 19 01**

CONNECT WITH US



DEFENCE JOBS AUSTRALIA



DEFENCEJOBSAUST



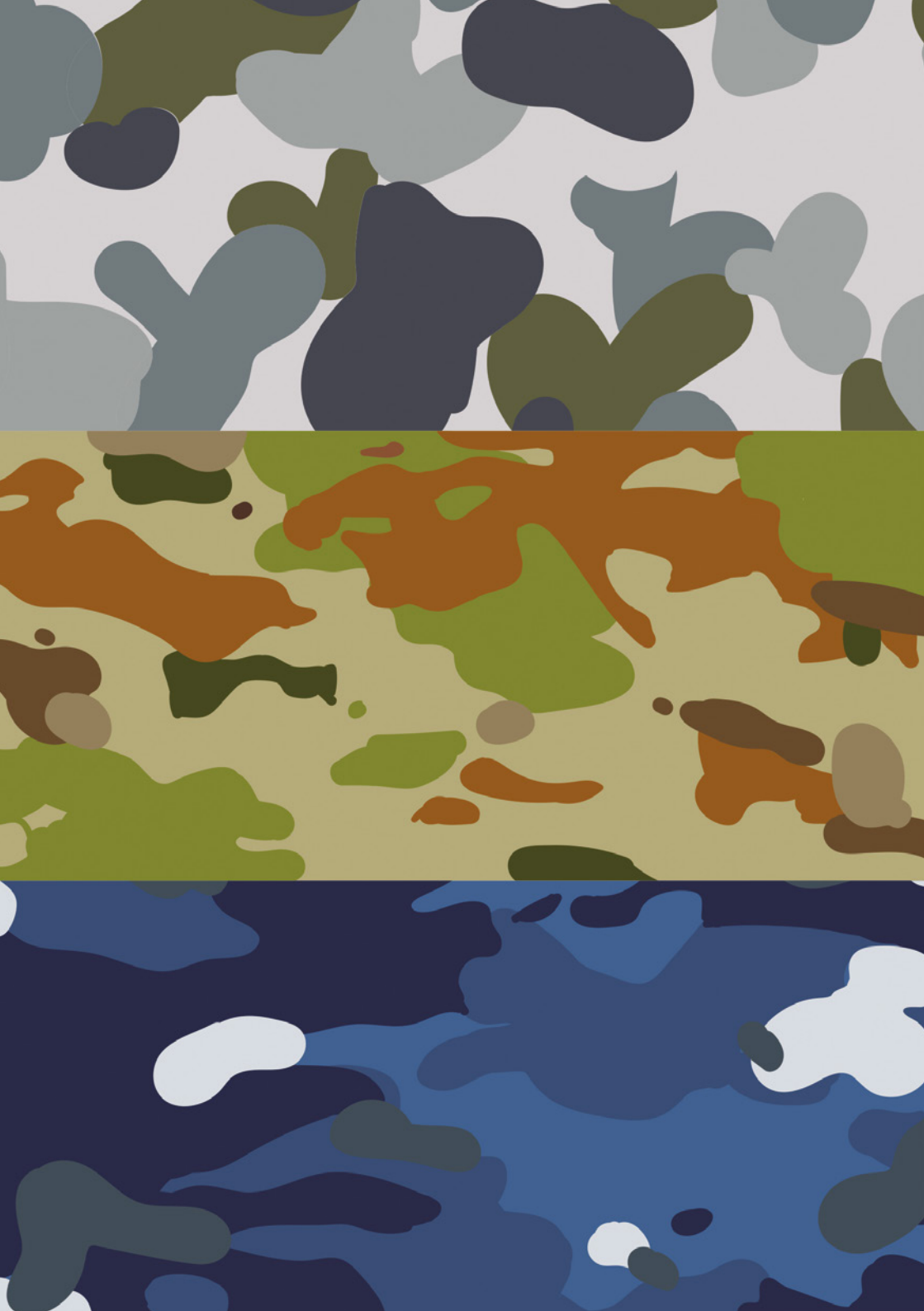
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DEFENCE JOBS AUSTRALIA



@DEFENCEJOBSAUST



CALL 13 19 01 OR VISIT

DEFENCEJOBS.GOV.AU/ADFA