



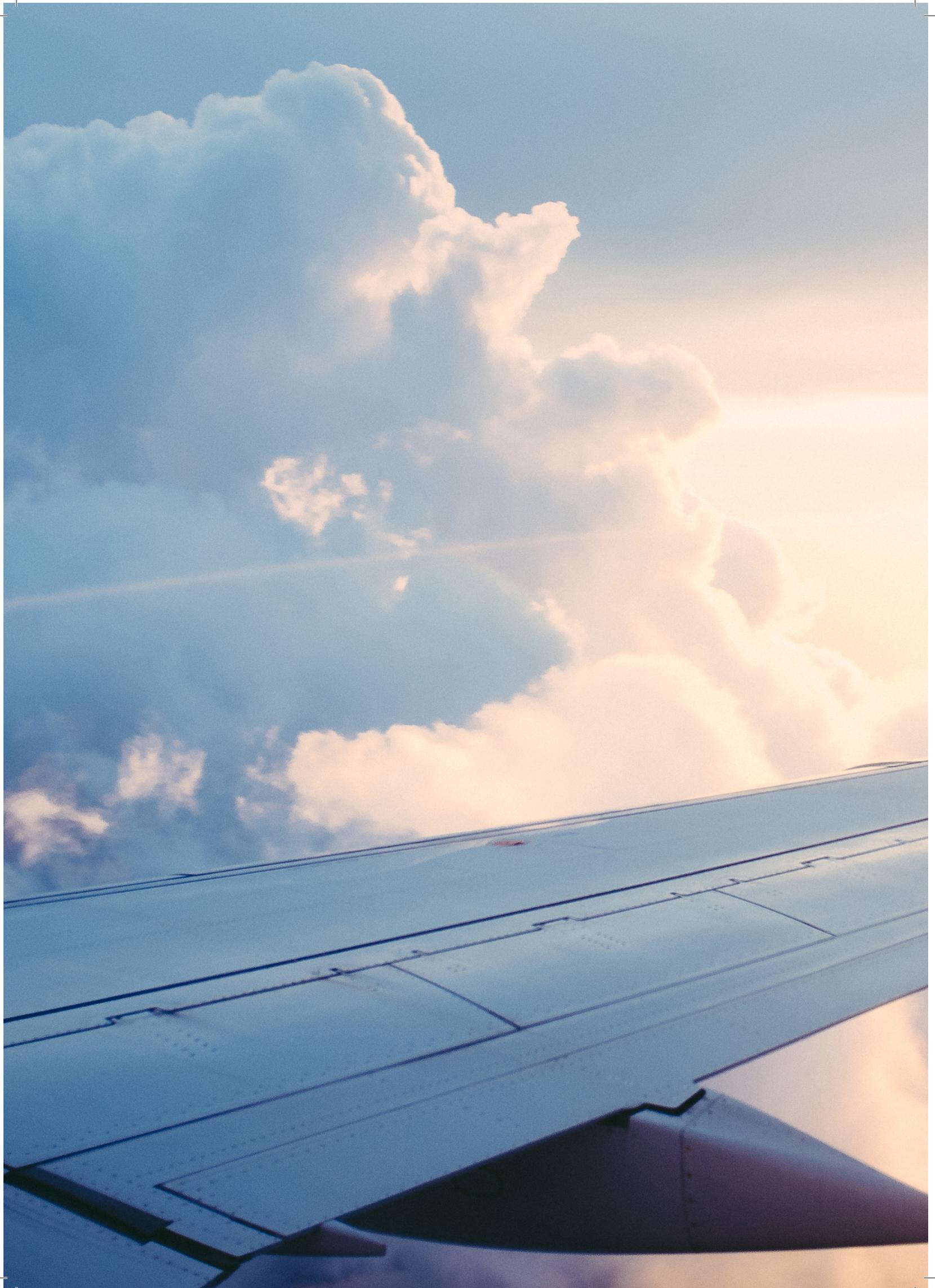
**UNSW**  
SYDNEY

Australia's  
Global  
University

# UNSW Aviation

Give wings to your dreams





# SOAR INTO AN INDUSTRY OF CHALLENGE AND OPPORTUNITY

The Aviation industry is a global, social, and economically important industry that brings people together. From the technically challenging cockpit with awe-inspiring views, to the operational, logistical, safety and financial challenges of managing airports and airlines, UNSW Aviation is uniquely placed to create graduates ready to take on opportunities in this exciting and growing industry.

## CONTENTS

- 02 WHY STUDY AVIATION?
- 04 WHY UNSW AVIATION?
- 06 AVIATION MANAGEMENT PROGRAM
- 09 FLYING PROGRAMS
- 16 HONOURS
- 16 HOW TO APPLY

# WHY STUDY AVIATION?



**SOCIALLY AND ECONOMICALLY IMPORTANT INDUSTRY**



**DIVERSE AND INTERESTING CAREERS**



**STRONG GROWTH EXPECTED WITH GREAT EMPLOYMENT PROSPECTS**



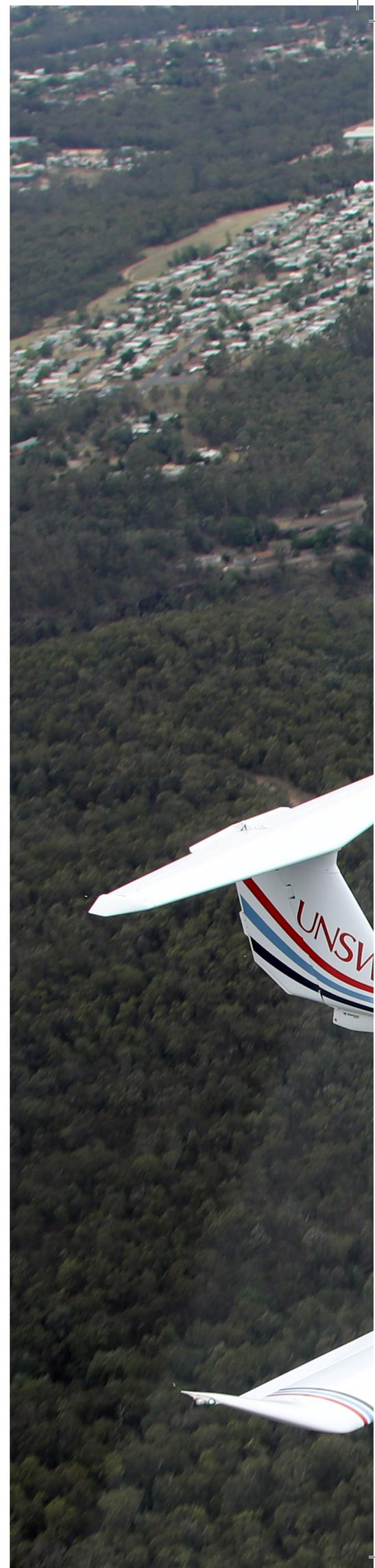
**UNIQUELY INTERNATIONAL WITH WORLDWIDE OPPORTUNITIES**

Millions of people travel domestically and internationally across the globe every day to explore new places, for work, or to visit family and friends. From booking a ticket, checking-in to a flight, passing through security, enjoying some duty-free shopping, boarding a plane and then safely landing at a destination, the experience of travel is exciting, poses a world of interesting careers, and is currently experiencing a period of growth.

Reports from Airbus and Boeing anticipate that air traffic will grow at 4.8 per cent annually, requiring some 33,000 new passenger and dedicated freighter aircraft at a value of US\$ 5.2 trillion over the next 20 years. Associated with this is the need for in excess of 600,000 pilots worldwide, of which the Asia Pacific will need 248,000 pilots, and Oceania (mostly Australia and New Zealand) over 30,000 pilots (Boeing Market Outlook, 2016). By the close of this year airlines will have taken delivery of more than 1900 new aircraft, around half of which will be due to growth. In addition, the number of city pair connections around the globe will top 18,000 this

year - and that's double what it was in 1996. Consumers are flying more partly because airfares are attractive being overall 62 per cent lower than they were a couple of decades ago. Fares are low because of very strong competition, remarkably low fuel costs, and more efficient aircraft. It looks very evident that the demand for airline seats will be exceedingly strong over the foreseeable future.

If this growth does eventuate as forecast, then airlines everywhere will be competing to get the best pilots, engineers and managers to keep up with demand. Of course pilots will be required to fly the aeroplanes, but administrators, finance specialists and managers will be required in airlines and airports for resource scheduling, negotiating contracts, pricing and costing services, managing infrastructure projects, identifying customer service and marketing initiatives, operational logistics, aircraft maintenance management, and safety. Career possibilities are very wide and not limited to being a pilot or traditional administrative roles.





# WHY UNSW AVIATION?

UNSW is the highest ranked university in the world which offers Aviation as a specific discipline.



UNSW Sydney is one of Australia's leading research and teaching universities. The university is ranked highly in international university rankings, is recognized as being a leading innovator with the strongest links to industry, and has highly sought after graduates. On campus are state-of-the-art facilities, great cafes, shops, libraries interesting clubs, societies and a wide range of support services such as medical and health services, a counselling service, educational and academic skills support, and a careers and employment service.

UNSW Aviation operates as a School within the Faculty of Science at UNSW Sydney, and is the only stand-alone university aviation school in Australia. Our aim at UNSW Aviation is to produce graduates of the highest calibre, whose qualifications are recognised throughout

the world as being of superior academic quality and of industry relevance. Our strength lies with our connections to industry, through the affiliated academics from the aviation industry with decades of experience in corporate aviation, and the constant dialogue our academic staff have with regulatory authorities, industry bodies, and research collaborators. We are also the only university in Australia to deliver flying training under our own Air Operators Certificate (under Civil Aviation Safety Regulations Parts 141/142) by UNSW employed instructors and only to students enrolled in our academic programs. Our graduates have a high graduate employment rate in Australia and internationally which is a result of the high regard for our programs in the industry, and is facilitated by our industry partnerships and our global alumni network.

UNSW Aviation offers the following programs to students interested in undergraduate study or learning to be a pilot:

**3980 Bachelor of Aviation (Flying):** educates and trains pilots to the highest commercial standards with a program of study that integrates academic theory and flight training.

**3981 Bachelor of Aviation (Management):** aims to produce future aviation managers, who understand both the core theoretical foundations of aviation operational management, and their practical application in a work environment.

**5536 Graduate Diploma in Flying (Australian Citizens and Permanent Residents only):** educates and trains pilots similar to the Bachelor of Aviation (Flying) with the added advantage of allowing a significant proportion of flying fees to be deferred through the FEE-HELP system where Australian Citizens are eligible. May be taken concurrently with the Bachelor of Aviation (Management) or independently after completion of a relevant Bachelor degree.

**4500 Bachelor of Science (Honours):** exceptional graduates of the Bachelor of Aviation programs interested in learning about and performing research under the guidance of an academic supervisor in Aviation.

## GET CONNECTED WITH AVSOC



There are over a hundred clubs and societies on campus covering sporting, social, religious, hobby and intellectual interests. AVSOC is UNSW Aviation's own student-run society for aviation enthusiasts, and is a great

way to meet new people, network and enjoy the lighter side of life as a student at UNSW. Some events AVSOC organize are BBQs at both Kensington and our Flying Operations Unit at Bankstown Airport, a start of the year Party bus, Aviation Careers Day and end of year ball.



#### UNSW FACTS

- 45th in 2018 QS World University Rankings
- 85th in 2018 Times Higher Education World University Rankings
- Member of the prestigious Group of Eight, a coalition of Australia's leading research intensive universities
- Award winning lecturers and leaders in their field
- Graduates most hired by LinkedIn's top 30 most in demand employers
- On-campus accommodation available for more than 5,000 students
- Exchange opportunities at over 250 universities in 31 countries

“Having an academic qualification in Aviation identified me as a motivated and dedicated candidate who has the commitment to develop a career in the aviation industry. Employers are able to utilize my aviation knowledge obtained from university immediately, resulting in an easier and quicker understanding on aviation-related issues at work compared to other candidates.”

**JANICE LI**

Passenger Service Officer  
Jardine Airport Services Limited  
Hong Kong



## AVIATION MANAGEMENT PROGRAM

### BACHELOR OF AVIATION (MANAGEMENT)

UNSW Program Code: 3981

UAC Code: 429520

Full-time duration: 3 years (part-time study available for local students)

2018 Entry Requirements:

- Guaranteed Entry ATAR 80.00
- International Baccalaureate 26
- GCE A Levels 10
- HKDSE 16

Assumed Knowledge: **Mathematics**

Intakes: T1 and T3

The aviation industry requires a large corporate world to function to ensure its success and progression. The management program is focused on producing quality students who understand the vast challenges specific to the aviation industry who can become corporate leaders. The industry is becoming more complex and sophisticated, and this means organizations are looking for better trained people in many employment situations who have wide industry knowledge, tertiary qualifications, and all-round capabilities. The UNSW Aviation Management program addresses these issues to produce graduates with essential skills and knowledge in the fields of science, engineering, interpersonal relations, the environment and management. This skill base provides a solid foundation upon which graduates can expect to advance to positions of management and influence within the aviation industry.

The Bachelor of Aviation (Management) program is constantly evolving in response to the needs of the aviation

industry and students. It includes a wide range of aviation management courses which have been developed in consultation with the industry. The courses aim to develop skills including critical thinking and decision making in topics including airline marketing, aviation safety, aviation security, corporate planning, fleet planning, schedule planning, flight operations, air traffic management, aircraft engineering and airport management. Students are exposed to current aviation topics and often work in teams to solve contemporary air transport problems. Learning exercises range from operating a startup airline in a management simulation to exploring the cognitive abilities of humans in the fast developing environment of aviation. Important to the success of this program are the industry affiliated academics and industry guest lecturers who hold leadership roles in the aviation industry. The knowledge and networks these staff bring to the classroom are invaluable to our students.

## STRUCTURE

The Bachelor of Aviation (Management) is comprised of 108 UOC of disciplinary core and 36 UOC of breadth electives.

- Each course is worth 6 Units of Credit (UOC)
- A full time load consists of 48 UOC per year.
- A minimum of 144 UOC is required to graduate.

### DISCIPLINARY CORE (108 UOC)

YEAR 1						
Fundamentals of Aviation	Introduction to Human Factors	Aviation Transport Economics	Statistics for Life Sciences	Airline Financial Analysis	Mathematics for life Sciences	Aviation Stage 1 Elective
YEAR 2						
Aviation Law and Regulations	Airline Marketing Strategies	Aviation Security and Airport Management	Aviation Stage 2 Elective	Aviation Stage 2 Elective		
YEAR 3						
Airline Management	Airline Resource Management	Aviation Safety and Resource Management	Aviation Research Methods	Aviation Stage 3 Elective	Aviation Stage 3 Elective	

AVIATION STAGE 1 ELECTIVES	AVIATION STAGE 2 ELECTIVES	AVIATION STAGE 3 ELECTIVES
Choose one course from: <ul style="list-style-type: none"> <li>• Physics 1A (Aviation)</li> <li>• Energy and Environmental Physics</li> <li>• Managing Organisation &amp; People</li> <li>• Global Business Environment</li> </ul>	Choose two courses from: <ul style="list-style-type: none"> <li>• Aviation Operations Research</li> <li>• Aviation Security &amp; Airport Management</li> <li>• Air Transport: Economics &amp; Environment</li> <li>• Managing People</li> <li>• Regional &amp; General Aviation</li> <li>• BHS Design, Tech. &amp; Operations</li> </ul>	Choose two courses from: <ul style="list-style-type: none"> <li>• Workplace Safety</li> <li>• Simulation Application &amp; Air Traffic Management</li> <li>• Airport Management 2</li> <li>• Aviation &amp; Sustainable Tourism</li> <li>• Advanced Law &amp; Regulation</li> </ul>

### BREADTH ELECTIVES (36 UOC)

Breadth electives include:

- Free Electives (24 UOC): any course taken from across the university. Students can study additional Aviation courses, a language from the Faculty of Arts, or gain a stronger theoretical depth in Commerce by studying accounting, marketing, management, or economics.
- General Education (12 UOC): two courses taken from outside of the Faculty of Science.
- For the complete program including all program rules and course descriptions, see the UNSW Handbook at: [www.handbook.unsw.edu.au](http://www.handbook.unsw.edu.au).

## BACHELOR OF COMMERCE / BACHELOR OF AVIATION (MANAGEMENT)

UNSW Program Code: 3835

UAC Code: 424100

Full-time duration: 4 years (part-time study available for local students)

2018 Entry Requirements:

- Guaranteed Entry ATAR 96.5
- International Baccalaureate 34
- GCE A Levels 14
- HKDSE 20

Assumed Knowledge: **Mathematics**

Mid Year Entry: **Available**

The Bachelor of Commerce and Bachelor of Aviation (Management) dual degree is for students wanting to expand their academic credentials whilst still remaining focused on the aviation industry. Both degrees are complementary programs, with Aviation providing a specific industry context in which to position the broader skills developed within the Commerce degree.

Students are required to complete the disciplinary core for the Bachelor of Commerce consisting of 96 UOC, and the disciplinary core for the Bachelor of Aviation (Management) consisting of 96 UOC.

Graduates of the dual degree will be ideal candidates for the highly competitive graduate intake programs of Qantas and Virgin Australia airlines.

“The program gave me access to internships such as a six month internship as a Quality and Safety Intern at the Royal Flying Doctor Service and a five-month internship at QantasLink as an ‘Airports – Safety and Compliance’ Intern.”

#### KRITIKA PRAKASH

Quality and Safety Officer  
Royal Flying Doctor Service  
Sydney

# WHERE ARE THEY NOW?

Graduates from our Aviation Management program find employment all over the globe. Here are just some examples of the roles and employers they are working with.

## AIRSERVICES AUSTRALIA

Air Traffic Controller  
Analysis and Modelling Specialist  
Flight Data Coordinator  
Master Roster Developer  
Resource Planning and Rostering  
Manager

## CATHAY PACIFIC HONG KONG

Assistant Manager, Cargo  
Revenue Planning  
Assistant Planning Engineer  
Navigation Service Officer  
Customer Service Officer  
Integrated Crew Management,  
Crew Control

## QANTAS AUSTRALIA

Flight Analyst  
Flight Dispatch Officer  
Manager International Schedule  
Variations & Airport Slots  
Performance Analyst  
Pricing and Yield Flight Analyst  
Principal Analyst, Fuel &  
Environment Conservation

Principal Financial Analyst,  
Revenue Forecasting  
Operations Control Officer  
Manager Longhaul Flight Crew  
Operations Support  
Manager Supply Chain Project  
Schedule Planning Adviser  
Senior Network Analyst

Other employers of our graduates include, but are not limited to:

Virgin Australia, DragonAir, Accenture, Accor Asia Pacific, Air Cargo Partners, Air Hong Kong, Air New Zealand, Airport Coordination Australia, Emirates, Etihad Airways, Hong Kong Airlines, Metro Jet, Jetstar, Regional Express, Qatar Airways, Singapore Airlines, and Toll Dnata.



## CAREERS

Graduates of the Aviation Management degree have a broad education that provides a solid base for pursuing a career in aviation.

Many graduates have enjoyed the flexibility to grow their careers through various roles in airlines and related industries.

The degree is designed to prepare graduates for employment in international and regional airlines of all sizes.

Other prospective employers include airports, government agencies such as the Australian Department of Infrastructure and Regional Development, Air Services Australia, tourism authorities, the Defence Forces, freight forwarders, and airport ground handling companies. Students looking more widely are well prepared to join consulting firms, IT firms, and air safety authorities.

## FEES AND SCHOLARSHIPS

Students are charged fees each semester for the courses that they are enrolled in, and the rates vary for domestic and international students. Full information in relation to fees can be found at [student.unsw.edu.au/fees](http://student.unsw.edu.au/fees). Domestic students, New Zealand Special Category visa holders and holders of humanitarian visas who are residing in Australia may be eligible for fee assistance or a loan from the Federal Government, called HECS-HELP. Eligibility requirements, application procedures, and other rules in relation to these loans can be found at [student.unsw.edu.au/hecs](http://student.unsw.edu.au/hecs).

Every year UNSW provides over \$83 million in scholarships to help students of all circumstances reach their educational goals. Scholarships are offered in a range of broad categories including rural, Indigenous, academic merit, sporting, equity, accommodation, travel and exchange, as well as for specific degrees and faculties. Further information on available scholarships can be found at [scholarships.unsw.edu.au](http://scholarships.unsw.edu.au).

“The Bachelor of Aviation has not only provided me with the aviation knowledge I need for my career but also opened opportunities through the lecturers and guest speakers to network with key personnel who work in the industry. The Bachelor of Aviation set up a solid foundation for anything that the industry can throw at me which has allowed a smooth and easy transition into the corporate Aviation world.”

**CATHY MA**  
Operational/Corporate  
Management Trainee  
Qantas Graduate Program  
Sydney

# FLYING PROGRAMS

## BACHELOR OF AVIATION (FLYING)

UNSW Program Code: 3980

UAC Code: 429500

Full-time duration: 3 years (part-time study NOT available)

2018 Entry Requirements:

- Guaranteed Entry ATAR 80.00
- International Baccalaureate 26
- GCE A Levels 10
- HKDSE 16

In addition applicants must submit an internal application directly to the School of Aviation and attend an interview and an aptitude test.

Assumed Knowledge: **Mathematics (Physics also strongly recommended)**

Intakes: T1 & T3

The Bachelor of Aviation (Flying) is intended to produce high quality pilots who are also future leaders and managers. In addition to completing flying licences and ratings as part of the Professional Pilot Program, students receive a solid academic and theoretical grounding in aviation management and safety. The integration of academic content, with flying theory and practical flight training ensures that core concepts and principles are well understood, remembered and applied. This gives our graduates a distinct competitive advantage as they have a deeper understanding and knowledge of core concepts, a broader understanding of the aviation industry, and are better prepared to take on more senior leadership roles.

As part of the Professional Pilot Program students receive up to 200 hours of flight training and approximately 30 hours of simulator training in the standard Commercial Pilot and Command Instrument Rating components of training. On completion of the degree, our graduates have attained, at a minimum, a Commercial Pilot Licence (CPL) with a Instrument Rating – Multi Engine Aeroplane and an Air Transport Pilots Licence (frozen). Further flying electives are also available which include an Instructor Rating (Grade 3 training endorsement), Multi-Crew Cooperation Course, General Aviation Preparatory Course, Airline Experience elective, and research project.

The theory examinations and flight tests included in the Professional Pilot Program are:

### THEORY EXAMINATION

The following lists all the written examinations required for licensing to be passed during the Professional Pilot Program.

- Pre-solo Air Legislation
- Pre-area solo
- Recreation Pilot Licence Aeroplane (RPLA)\*
- Commercial Pilot Licence (CPL) (Seven Examinations)\*
- Instrument Rating (IREX)\*
- Air Transport Pilot Licence (ATPL) (Seven Examinations)\*

\*CASA Examinations. The remainder are UNSW in-house examinations.

### FLIGHT TESTS

The following lists all of the flight tests to be passed during the Professional Pilot Program. All flight tests are conducted by a CASA Flight Training Examiner (FTE) or a CASA-Approved Testing Officer (ATO).

- Recreational Pilot Licence (RPL)
- Commercial Pilot Licence (CPL)
- Instrument Rating – Multi Engine Aeroplane
- Grade 3 Instructor Rating (For those choosing this elective)

Whilst enrolled in the program students are required to obtain and maintain an Aviation Security Identification Card, Australian Class 1 Medical Certificate, and pass random drug and alcohol tests. Details of where to find a Designated Aviation Medical Examiner can be found at (<https://casa.govcms.gov.au/licences-and-certification/aviation-medicine/pilots-and-air-traffic-controllers/dameos>). In addition, the Head of Operations is required by the Civil Aviation Safety Authority (CASA) to assess a students ability to use English in a learning environment as well as an operational environment. This English language requirement constitutes an over-riding safety consideration. Where students are unable to adhere to these requirements, or no longer wish to remain in the flying program, they may transfer to the Bachelor of Aviation (Management) program and receive a refund for flying costs not incurred.



### STUDENT PROFILE: Hayley Umbers

*Why did you choose to study the UNSW Bachelor of Aviation (Flying)?*

I wanted the best quality flying training available in combination with a University degree, and UNSW is the only Group of Eight University which provides this.

*What have you enjoyed the most about the program?*

The supportive environment among the flying students at the Flying Operations Unit and the opportunity to fly everyday.

*What have been some of your achievements whilst you have been with UNSW Aviation?*

I have completed both my Commercial Pilot Licence as well as a Multi-Engine Command Instrument Rating. I also received the Australian Federation of Air Pilot's award for the Best Pilot in my course in second year and first prize in the 2016 Sir Donald Anderson Award for outstanding academic achievement in the pursuit of a professional pilot's qualification, awarded by the Civil Aviation Safety Authority and the Australian Women Pilot's Association.

*What are your plans when you graduate?*

In the short term, I hope to continue studying the Graduate Diploma in Advanced Flying at UNSW and achieve a position with QantasLink as a First Officer after I graduate with my Bachelor Degree. I would ultimately like to fly in the corporate sector as a captain on private and business jets.

## STRUCTURE

Students studying the Bachelor of Aviation (Flying) will spend half of the program at UNSW Kensington Campus where they will study academic courses. The other half of the program, incorporating the flying theory and flight training, is delivered at Bankstown Airport at UNSW's own Flying Operations Unit (FOU). Students are expected to make themselves available on a full-time basis during flying training, and at times may be expected to fly earlier or later or occasionally on weekends if necessary due to scheduling pressures or delays due to maintenance or weather. This is an intense program which ensures that students develop the necessary discipline to be successful in their career as a pilot. However, through this intense period of training students develop life-long friendships and appreciate that this intensity ensures they complete their qualifications in the minimum time.

YEAR 1		
Term 1	Term 2	Term 3
<ul style="list-style-type: none"> <li>Maths for Life Sciences</li> <li>Physics 1A (Aviation)</li> <li>Aviation Transport Economics</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Aircraft Engineering</li> <li>Statistics for Life &amp; Social Sciences</li> <li>Energy &amp; Environmental Physics</li> </ul>	<ul style="list-style-type: none"> <li>Basic Aeronautical Knowledge</li> </ul>
YEAR 2		
Term 1	Term 2	Term 3
Flight training at FOU from November Year 1 to December Year 2 completing theory, flight and simulator training for the Recreational and Commercial Pilot Licences and Instrument Rating – Multi Engine Aeroplane. A General Education Course (6 UOC) offered by UNSW must also be completed (online courses available).		
YEAR 3		
Term 1	Term 2	Term 3
<ul style="list-style-type: none"> <li>Airline Management</li> <li>Aviation Safety and Resource Management</li> <li>Aviation Elective (6 UOC)</li> <li>General Education Elective (6 UOC)</li> </ul>	Air Transport Pilot Licence (ATPL) theory and examinations at FOU and completion of one flying elective.	A General Education Course (6UOC) offered by UNSW must be completed (online courses available).
Academic courses taken at UNSW Kensington		
Flight theory and training at Flying Operations Unit, Bankstown		

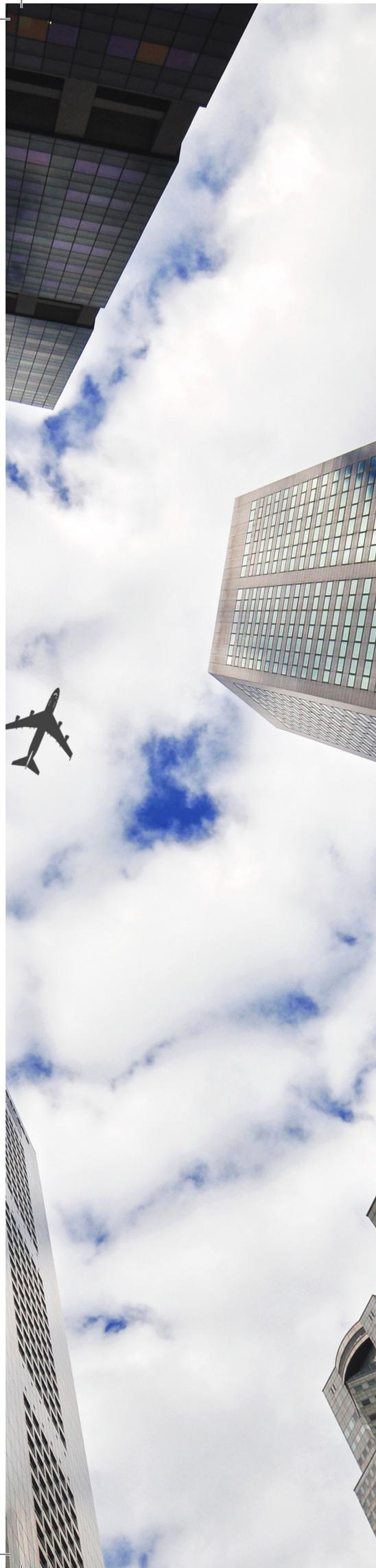
### NOTES:

Aviation electives can be chosen from:

- Simulation Applications & Air Traffic Management
- Advanced Law and Regulation in Aviation
- Aviation & Sustainable Tourism

General Education electives are listed GE courses taken from outside of the Faculty of Science.





## FLYING OPERATIONS UNIT AT BANKSTOWN AIRPORT

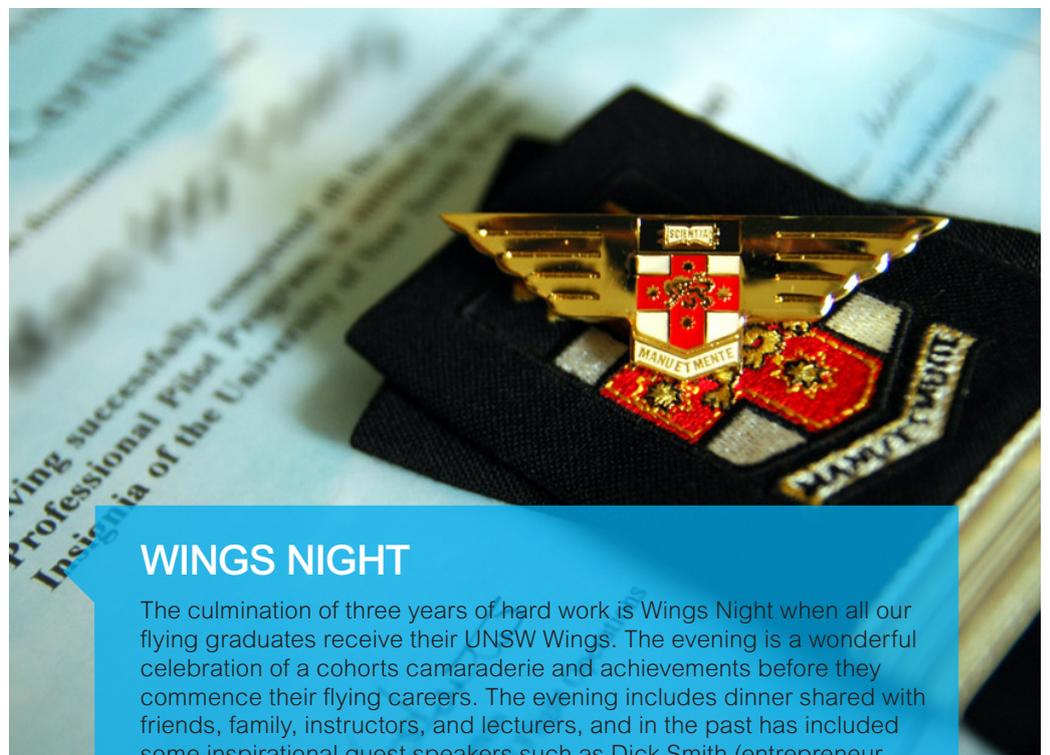
The Flying Operations Unit (FOU) is based at Bankstown Airport, and is responsible for the delivery of flying training, the theory directly associated with flying training and support for airborne research. All aspects of training and operations are approved by the Civil Aviation Safety Authority under Parts 141 and 142 of the Civil Aviation Safety Regulations. The FOU is housed in two main buildings at Bankstown Airport, located at Building 570, 32 Airport Avenue; and Hangar 135, Aviation Place. An Open Day is held in September every year for students interested in studying our degrees to see the facilities and talk to instructors.

Our aircraft fleet comprises Diamond DA40 and Piper PA44 aeroplanes fitted with Garmin G1000 flight navigation and display systems. A FRASCA flight training device (FTD), also fitted with the G1000 systems, is used for procedural and instrument training.

In addition to the FRASCA, the FOU also operates a Pacific Simulators 4.5 FTD, and an Aerosim DASH 8 Q400 Virtual Procedure Trainer. These latter devices are used for advanced training.

Our ground and flying instructors are all specially selected, trained and employed by UNSW to ensure that our training is of a high quality. Staff receive ongoing training and assessment to ensure these high standards are maintained.

Students attending training at FOU are expected to behave to professional standards which includes wearing their uniform and security cards, attending class and briefings on time, preparing their aircraft for flight, observing safety requirements, etc. Instilling this professional conduct into our graduates at an early stage ensures they are well prepared for employment at the completion of their degree.



## WINGS NIGHT

The culmination of three years of hard work is Wings Night when all our flying graduates receive their UNSW Wings. The evening is a wonderful celebration of a cohorts camaraderie and achievements before they commence their flying careers. The evening includes dinner shared with friends, family, instructors, and lecturers, and in the past has included some inspirational guest speakers such as Dick Smith (entrepreneur and aviator), Major Helen Mammino, (Officer Commanding 171<sup>st</sup> Squadron, which operates S70 A Black Hawk helicopters), Squadron Leader David Bell (RAAF)(J35 Instructor) and Captain Simon Henderson (Virgin Australia Airbus A330 Fleet Standards Manager).



## FEES AND SCHOLARSHIPS

Students are charged fees each semester for the academic courses that they are enrolled in, and the rates vary for domestic and international students. Full information in relation to fees can be found at [student.unsw.edu.au/fees](http://student.unsw.edu.au/fees).

Domestic students, New Zealand Special Category visa holders and holders of humanitarian visas who are residing in Australia may be eligible for fee assistance or a loan from the Federal Government, called HECS-HELP. Eligibility requirements, application procedures, and other rules in relation to these loans can be found at [student.unsw.edu.au/hecs](http://student.unsw.edu.au/hecs).

In addition to these academic course fees, for the Bachelor of Aviation (Flying) students are required to pay all costs associated with flight training. In 2018 the anticipated standard cost of flight training to obtain the minimum of a Commercial Pilot Licence (CPL), Instrument Rating - Multi Engine Aeroplane, and ATPL (Frozen) is \$AUD130,000. Costs included in this fee are all those associated with aircraft and simulator operations, flight and ground instructor supervision, landing fees, flight test fees, initial issue of uniform, initial issue of CASA documentation, study texts, accommodation for overnight operations and mass briefing manuals.

For 2018 the fees will be payable as follows:

- Year 1: one instalment of \$AUD7,000;
- Year 2: 5 instalments of \$AUD24,500 (this is when most of the flying training is completed);
- Year 3: payment dependent on choice of elective.

Additional flying costs will be incurred depending on a student's choice of third year elective and if more than the 200 flight hours is required to achieve proficiency in any aspect of the flight training.

For Australian Citizens who are unable to afford the up-front flight training fees of the Bachelor of Aviation (Flying) program, UNSW Aviation offers the Graduate Diploma in Flying where eligible students are able to access a FEE-HELP loan from the Australian Government to assist with payment of flight training fees up to the FEE-HELP limit.

Every year UNSW provides over \$83 million in scholarships to help students of all circumstances reach their educational goals. Scholarships are offered in a range of broad categories including rural, Indigenous, academic merit, sporting, equity, accommodation, travel and exchange, as well as for specific degrees and faculties. Further information on available scholarships can be found at [scholarships.unsw.edu.au](http://scholarships.unsw.edu.au). Note, there are currently no scholarships available for the flying fees associated with the Bachelor of Aviation (Flying).

## CAREERS

For qualified pilots, there is wide variety of work in aviation which includes being an airline pilot (international and regional), a flight instructor, charter or corporate pilot, corporate jet flying, helicopter flying and aerial survey work. All these fields have their own requirements and rewards. To be employable, pilots must have a Commercial Pilot Licence (CPL). This includes many hours of flying training plus a number of theory examinations. Typically a new CPL holder would also need either an instrument rating or an instructor rating in order to be able to fill the requirements of an employer.

For most pilots, the path to a career as a pilot within an airline customarily requires a period working within the general aviation sector to gain additional flying experience. For this reason, most flying graduates will spend some time working as a flying instructor, charter pilot or in some other general aviation flying activity. The accumulation of flying experience is an important part of the career strategy of a pilot planning to join a regional, domestic, or international airline.

## WHERE ARE THEY NOW?

Our Bachelor of Aviation (Flying) program has an 80% graduate employment rate. We have cadets, flying instructors, line pilots, helicopter pilots, second officers, and first officers working with organisations that include, but are not limited to, Dragonair, Broome Airservices, Cathay Pacific, Child Flight, Emirates, Etihad Airways, Jetstar, Qantas, QantasLink, Qatar Airways, Royal Australian Air Force (RAAF), Royal Australian Navy, Regional Express, Singapore Airlines, Toll Dnata, and Virgin Australia.



“After completing the Aviation (Flying) degree I headed into the outback of Australia to begin my professional flying career. I flew various passenger charter, freight and mail services and then moved on to regular public transport gaining employment as a First Officer on Saab 340 aircraft for Regional Express, being promoted to Captain after a year and a half. I’m now employed by the Virgin Australia Group as a First Officer on Boeing 737.

The high standard of flight training in the UNSW degree made the transition to professional flying less of a quantum leap than it would have been in a less structured or intensive training course. Its helped me undertake roles over and above those expected of an ordinary line pilot, making me a highly capable and valued employee – both in general aviation and airlines.”

**STUART BEVERIDGE**  
Virgin Australia

## UNSW AVIATION AND QANTAS FUTURE PILOT PROGRAM

In conjunction with QantasLink, UNSW Bachelor of Aviation (Flying) students having Australian citizenship (or New Zealand citizens having Special long term residency in Australia) are able to apply to QantasLink to become a QantasLink Approved Student. Such status provides mentoring and monitoring of students throughout their training at UNSW by QantasLink personnel, and offers an optimum pathway for entry to QantasLink with less than the minimum hours stipulated for Direct Entry as a First Officer. This is a unique partnership, not available through any other training provider.

## GRADUATE DIPLOMA IN FLYING

Only available to Australian citizens and permanent residents.

The Graduate Diploma in Flying is a one year program studied part-time which may be completed concurrently with the UNSW Bachelor of Aviation (Management) program after successful completion of first year. It is also available to students who have completed a Bachelor degree in Aviation Management or another discipline related to managing flying operations such as engineering, physical science, mathematics, psychology or business. Applicants for this program will begin Flight Screening in Term 3. Satisfactory completion of Flight Screening is required before formal entry to the Graduate Diploma in the following Summer Term.

The program is comprised of Flight Screening and 4 courses in which students will undertake both ground theory and flying training:

- AVIG5911 Flying Operations 1 (12 UOC)
- AVIG5912 Flying Operations 2 (12 UOC)
- AVIG5913 Flying Operations 3 (12 UOC)
- AVIG5914 Flying Operations 4 (12 UOC)

Upon completion of these courses, students will attain a Commercial Pilot Licence (CPL) and Instrument Rating – Multi Engine Aeroplane. ATPL theory is offered once free for students who complete the Graduate Diploma in Flying. Students wishing to do the program concurrently with the Bachelor of Aviation (Management) must apply for and enter the Bachelor program first. Students in the Graduate Diploma in Flying are also eligible for consideration for the UNSW Qantas Future Pilot Program.

### FEES

An up-front payment is required for the Flight Screening component of the program which will be \$40,000 in 2018. This is paid in two instalments, the first of \$25,000 paid at commencement of flight training, and the balance paid in November. Then, once students enrol in the Graduate Diploma in Flying program, fees are charged for each course enrolled in as per [student.unsw.edu.au/fees](http://student.unsw.edu.au/fees).

In 2018 Graduate Diploma in Flying students will pay \$27,780 per course. However, Australian government policy allows eligible students to defer course fees, and hence the majority of these costs for the flight training through the FEE-HELP loan system up to the lifetime FEE-HELP limit. The FEE-HELP limit in 2019 is \$104,440. For details about FEE-HELP eligibility and limits, please see [student.unsw.edu.au/fee-help](http://student.unsw.edu.au/fee-help).

The Flight Screening fee and course fees cover all costs associated with aircraft and simulator operations, flight and ground instructor supervision, landing fees, flight test fees, initial issue of uniform, initial issue of CASA documentation, study texts, accommodation for overnight operations and mass briefing manuals.

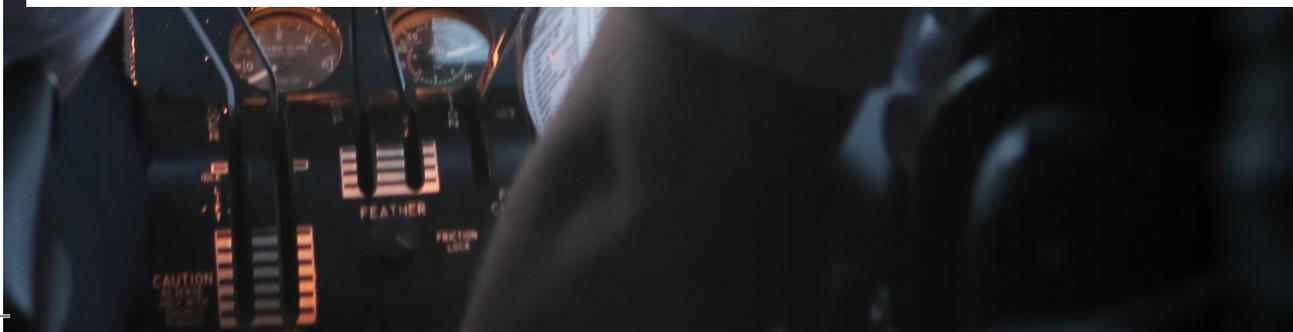




A sample program for students studying the Bachelor of Aviation (Management) and Graduate Diploma in Flying concurrently:

	YEAR 1			YEAR 2				YEAR 3			YEAR 4			TOTAL UOC
	T1	T2	T3	T1	T2	T3	Summer	T1	T2	T3	T1	T2	T3	
<b>B Av (Management)</b>	18	18	12	18	18	12	--	6	--	6	18	18	--	144
<b>Grad Dip (Flying)</b>	--	--	--	--	--	Flight Screening	12	12	12	12	--	--	--	48

Bachelor of Aviation (Flying)	VS	Bachelor of Aviation (Management) + Graduate Diploma in Flying
3 years		4 years
Commercial Pilot Licence		Commercial Pilot Licence
Instrument Rating – Multi Engine Aeroplane		Instrument Rating – Multi Engine Aeroplane
ATPL (Frozen)		One chance at ATPL examinations
In 2018 a minimum of \$130,000 flying costs, majority of which is paid in second year. Academic course fees also payable, and may be deferred through HECS-HELP for eligible students.		In 2018, \$40,000 Flight Screening Fee paid upfront, and approximately \$111,120 in flying fees of which \$104,440 may be deferred through FEE-HELP Government loan scheme for eligible students. Academic course fees also payable for the Bachelor of Aviation (Management) program which may be deferred through HECS-HELP for eligible students.
Intense period of flying training at FOU in second year		Flying training completed at a slower pace to allow for completing courses concurrently at Kensington campus
Good understanding of aviation industry through some core course material in first and third year		Deep and broad understanding of aviation industry through achievement of a degree in Aviation Management
Eligible for Qantas Future Pilot Program		Eligible for Qantas Future Pilot Program
Option to complete Instructor Rating, and Multi-Crew Course as an elective		No elective options



# HONOURS

The School of Aviation is proud to offer an Honours Degree in Aviation as part of its comprehensive suite of industry-relevant degrees. It is available as either a one-year full-time or two-year part-time program.

The program introduces students to major research areas through advanced lectures and a major research thesis of not more than 15,000 words. Through the taught component of this course, students will critically examine academic and industry developments within aviation with particular emphasis towards the chosen area of their thesis. The research thesis will examine an area of research significance as permitted by the Head of School. Students must have attained a weighted average mark of 65 throughout their Bachelor program to be admitted into this program.

Specialisation will be encouraged in the areas of aviation safety and human factors, commercial airline management (including finance and economics) and aviation meteorology. Potential Honours students need not have a specific topic in mind when notifying the School of their intention of enrolling. Honours students can develop their research topic with their supervisor over the first few weeks of their candidature.

Recent projects have included:

- Network design and connectivity in long-haul low-cost carriers
- On the value of airline fuel hedging, evidence from global airlines
- The effects of noise cancelling headsets on pilot performance: A study of native English speaking and EL2 pilots
- Decision rules in making flight choices: Application of vertical protocol analysis and choice experiments
- Predicting pilots risk taking behaviour
- The effects of caffeine on pilot's performance and learning ability
- A comparison of introductory crew resource management training between the Australian Defence Force and Qantas
- The low cost model evolution: a case study of Jetstar International
- Unruly passenger behaviour onboard aircraft

"I was interested in doing Honours since day one of my university life. I always found research fascinating and Honours also greatly improves your chance in securing a job upon graduation. In Singapore, a good Honours is almost a mandatory requirement to apply for certain jobs. I like to believe my Honours has given me some advantage in hunting for jobs successfully.

I have now been fortunate enough to secure a scholarship to do a PhD in UNSW Aviation and am currently doing research on how airport retail can be enhanced through airport configurations, which is a continuation of my Honours project."

**YIMENG CHEN**

Honours Graduate 2014 and current PhD student

## HOW TO APPLY

### LOCAL STUDENTS

All local applicants (Australian citizens and residents) for admission to the Bachelor of Aviation (Management) or Bachelor of Aviation (Flying) must complete a University Admissions Centre (UAC) application form. Please see the UAC website for more information in relation to procedures and deadlines: [uac.edu.au](http://uac.edu.au). Bachelor of Aviation (Flying) applicants must also submit an internal application form directly to the School of Aviation, and attend an interview and an aptitude test.

Applicants interested in the Graduate Diploma in Flying, must also submit an internal application form directly to the School of Aviation and attend an interview and an aptitude test to be considered for admission into Flight Screening. Applications must be submitted by 30th June for commencement of Flight Screening in September.

UNSW Aviation application forms are available at [aviation.unsw.edu.au/future](http://aviation.unsw.edu.au/future).

### INTERNATIONAL STUDENTS

International applicants apply to the Bachelor of Aviation (Management) and Bachelor of Aviation (Flying) via [apply.unsw.edu.au](http://apply.unsw.edu.au). Bachelor of Aviation (Flying) applicants must also submit an application form directly to the School of Aviation, and attend an interview and aptitude test.

In addition to meeting minimum academic requirements for UNSW Aviation programs, international students must meet minimum English entry requirements as per [international.unsw.edu.au/entry-requirements](http://international.unsw.edu.au/entry-requirements). International students who do not meet the academic entry requirements may be interested in completing UNSW Foundation Studies ([ufs.unsw.edu.au](http://ufs.unsw.edu.au)). This is the longest-running and leading pre-university foundation program in Australia where successful international students have a guaranteed place via a provisional offer to either of the Bachelor of Aviation (Flying) or Bachelor of Aviation (Management). UFS students enroll in a 'stream' which is a package of courses that provide a pathway to specific undergraduate programs at UNSW. Upon completion of the stream, the UFS GPA is used to calculate eligibility for admission into the relevant UNSW program.

UNSW Program	UFS Stream	Minimum UFS GPA for admission to UNSW Program	Minimum UFS English Grade
3980 Aviation (Flying)	Science	7.0	C+
3981 Aviation (Management)	Science or Commerce	7.0	C+
3835 Commerce / Aviation (Management)	Commerce	8.0	C+



## FOR FURTHER INFORMATION

Please contact the  
UNSW School of Aviation

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Email: [aviation@unsw.edu.au](mailto:aviation@unsw.edu.au)

Website: [aviation.unsw.edu.au](http://aviation.unsw.edu.au)



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Photography: Paul Sadler and UNSW Science Marketing

**Compliance:** The Education Services for Overseas Students (ESOS) Act 2000 sets out the legal framework governing delivery of education to overseas students studying in Australia on a student visa. UNSW in providing education services to overseas students complies with the ESOS framework and the National Code of Practice for Registration Authorities and providers of Education and Training to Overseas Students 2007 (The National Code). A description of the ESOS Framework can be found at the following link: [internationaleducation.gov.au/regulatoryinformation/pages/regulatoryinformation.aspx](http://internationaleducation.gov.au/regulatoryinformation/pages/regulatoryinformation.aspx)

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Information in this Guide is correct as at August 2018. The university reserves the right to change any degree, admission requirements or other information therein without prior notice. We recommend that you check our website for the most current information before making final selections or enrolling in any courses.