

# 2017 UNDERGRADUATE ENVIRONMENT

Geelong | Melbourne | Warrnambool | Cloud Campus

ENVIRONMENTAL MANAGEMENT  
AND SUSTAINABILITY  
WILDLIFE AND CONSERVATION BIOLOGY  
MARINE BIOLOGY





# ENVIRONMENT AT DEAKIN

Many people talk about the need to save our environment, but how many can say they are actually making a difference? Qualifications in environmental management and sustainability, marine biology or wildlife and conservation biology give you the skills required to assist in the preservation of our environment for future generations. You might like to conserve wildlife and plants, study diverse marine ecosystems or assist with environmental education.

No matter what area of the environment you study, as a graduate you will have the potential to be involved with environmental developments that hold the key to the future, and enjoy a range of exciting career opportunities in the public, private and not-for-profit sectors.

**Excited about a career in the environment?  
Keep reading to start your journey at Deakin.**





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## DEAKIN HALLMARKS

Deakin Hallmarks are awards that recognise students' outstanding achievement of Graduate Learning Outcomes, which are highly valued in the workplace.



Communication



Digital literacy



Teamwork



Critical thinking



Problem solving



Self-management

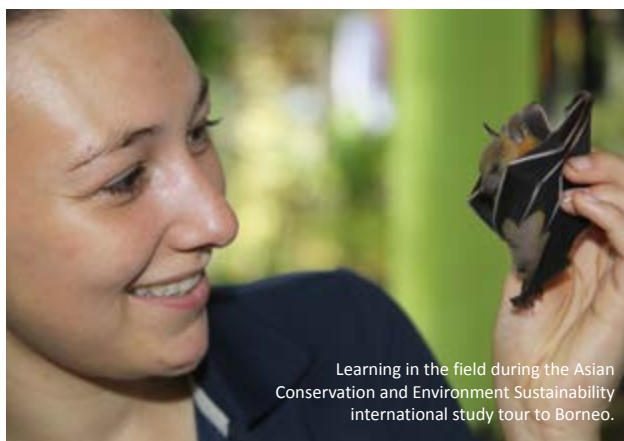


Global citizenship



# WHY DEAKIN?

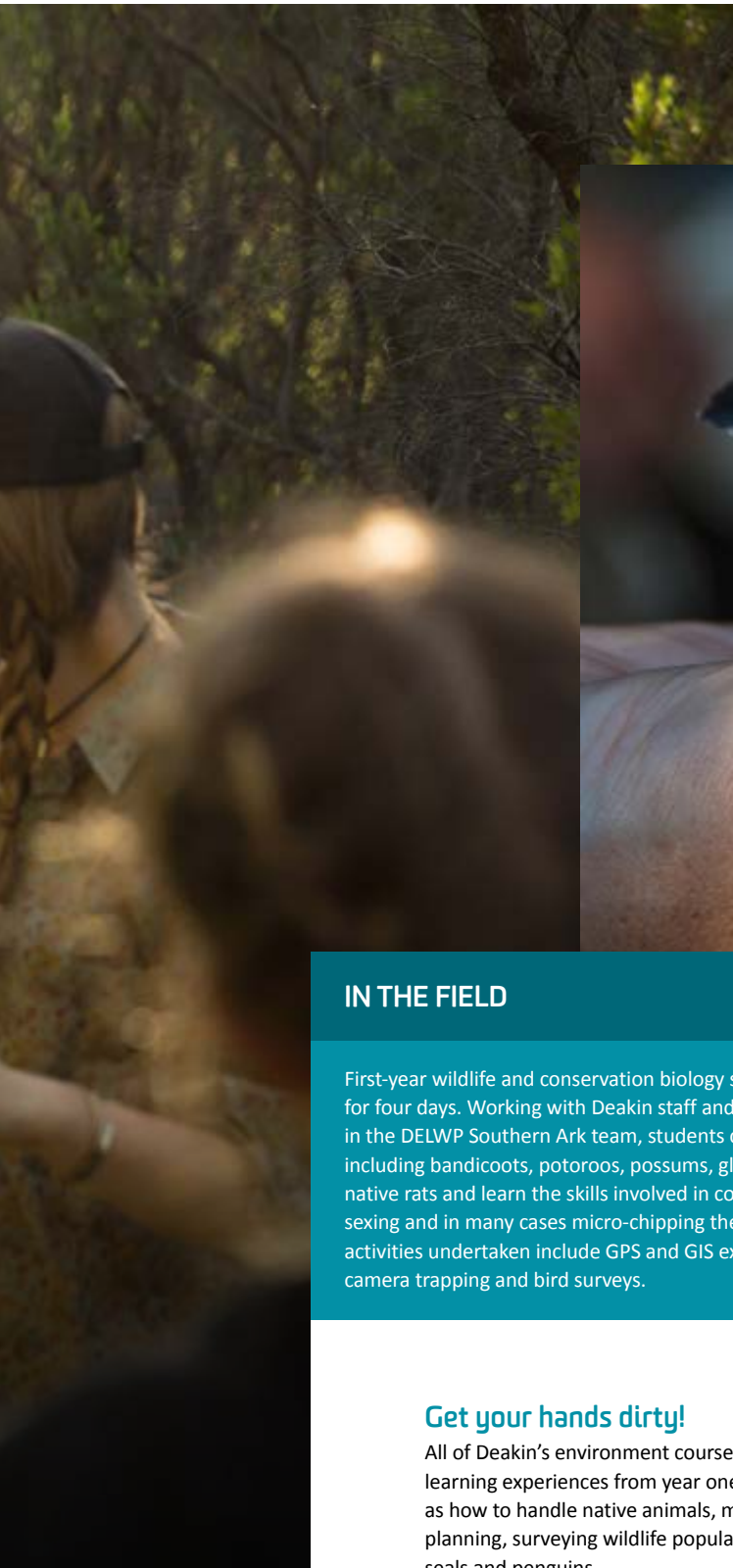
Study the environment beyond the traditional realm of the lecture theatre. Get experience in the real world, conduct laboratory experiments and use industry-standard equipment, preparing you as a highly skilled, work-ready graduate.



Learning in the field during the Asian Conservation and Environment Sustainability international study tour to Borneo.







## IN THE FIELD

First-year wildlife and conservation biology students visit Cape Conran for four days. Working with Deakin staff and our industry partners in the DELWP Southern Ark team, students catch small mammals, including bandicoots, potoroos, possums, gliders, *antechinus* and native rats and learn the skills involved in correct handling, identifying, sexing and in many cases micro-chipping these animals. Other activities undertaken include GPS and GIS exercises, radio-tracking, camera trapping and bird surveys.

### Get your hands dirty!

All of Deakin's environment courses have a focus on practical experience and offer hands-on learning experiences from year one. Depending on your course, you may learn skills such as how to handle native animals, measuring the health of freshwater environments, coastal planning, surveying wildlife populations, conducting sustainability assessments and studying seals and penguins.

Some fieldwork experiences include:

**Cape Conran Coastal Park** – learn about parks management and wildlife conservation in a 12 000 hectare coastal reserve, featuring heathlands, beaches and woodlands.

**The Grampians** – conduct small team-based experiments in the vast national park known for its striking series of sandstone mountain ranges.

**Great Otways National Park** – learn to design and implement a large-scale wildlife survey in some of the best rainforest scenery in southern Australia.



Students testing water quality.



Find out more and see students' experiences on the 'Get into the Wild@Deakin' blog: [deakin-environment.tumblr.com](https://deakin-environment.tumblr.com).

# WHY DEAKIN?



Deakin's purpose-built research vessel, Yolla, in the waters off the Warrnambool coast.

## EXPERIENCE MARINE LIFE FIRST-HAND

Marine researchers have developed Deakin's purpose-built research vessel Yolla – which houses the most advanced sonar system in the world – and have created a detailed continuous map of Victoria's sea floor habitats. This data is playing a key role in supporting fishery and conservation management of the state's marine environments.

Deakin environment undergraduate students get to participate in a range of practical activities, such as identifying marine plants and animals using the images generated by remotely controlled vehicles on the sea floor.

## Thriving research culture

Deakin supports one of the world's most prestigious environmental and marine science research programs. Our ecologists are helping to protect Australia's vulnerable flora and fauna from disease, rapid development and climate change. Many of our undergraduate students go on to undertake research degrees at Deakin. Two key pieces of research currently being conducted involve studying animal behaviour – see page 13, and the discovery of three new mammal species in PNG – see page 11.

## Links with industry

Our staff have close links with industry and relationships with organisations such as the Department of Environment, Land, Water and Planning, Parks Victoria and the Department of Primary Industries to ensure our courses are up-to-date with industry trends. Environment courses at Deakin have a core professional placement unit, with students completing placements in a range of high-profile organisations, including Zoos Victoria, Parks Victoria, Department of Environment, Land, Water and Planning, Biosis – Environmental Consulting, as well as local, state and federal government.

## First-class facilities and equipment

Environment students have access to industry-standard equipment, such as a Geographic Information Systems (GIS) lab, wildlife tracking technology, aquaculture facilities, infrared motion sensing wildlife cameras, high-tech research labs, research vessels and remotely operated underwater vehicles.



'As part of my course I went on a month-long work placement to Selati Game Reserve in Africa, assisting in the research of the dynamics of a rehabilitated grassland system, surrounded by lions, elephants and rhinos. It was extraordinary!'

### CARA PENTON

Environmental science (wildlife and conservation biology) student and Global Science and Technology Program participant



### JOIN THE PEER SUPPORT NETWORK PROGRAM

The Faculty of Science, Engineering and Built Environment offers a Peer Support Network Program as part of its commitment to providing new students with the best possible transition into university life. By joining the program, first-year students will receive support and guidance from more senior students in their course helping them to become familiar with the support services and facilities available, while gaining useful tips about studying at Deakin.

[deakin.edu.au/sebe/students/peer-support-network](https://deakin.edu.au/sebe/students/peer-support-network)

### Strong employment outcomes

The hands-on experience gained in Deakin's environment courses, combined with the theoretical knowledge learned, provides graduates with a mix of skills highly valued by employers. Our graduates have found exciting and diverse opportunities to work in the public, private and not-for-profit sectors in a wide range of fields, including, but not limited to: wildlife conservation and management, environmental management and sustainability, fisheries and aquaculture, marine biology, agriculture and natural resources management.

'I got to do six weeks of work with the Department of Sustainability and Environment working on their Southern Ark Project. This gave me an opportunity to work and network with some really knowledgeable people working in the field.'

### MATT TUNKS

Environmental science (wildlife and conservation biology) student and Global Science and Technology Program participant

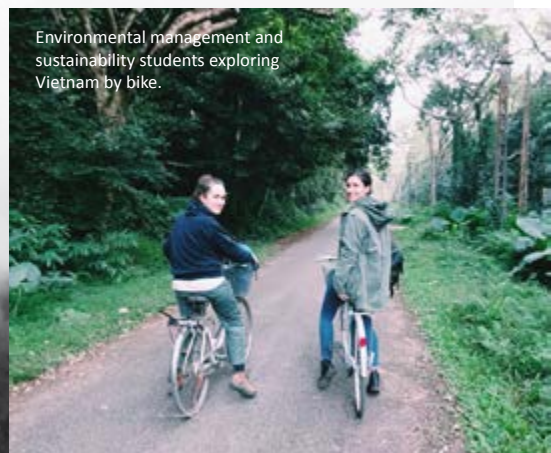


## ROHAN GAYMER

Environmental science (environmental management and sustainability) student



Deakin environmental science student Rohan exploring Machu Picchu, Peru during an international study abroad experience as part of his degree.



Environmental management and sustainability students exploring Vietnam by bike.

## EXPERIENCE THE WORLD WHILE YOU STUDY

### Study abroad

Our Study Abroad and Exchange Office offers various programs, including exchange, study abroad, short-term study programs, study tours and international volunteering opportunities. Deakin environment students have studied in a range of countries, including New Zealand, Canada, the US and Costa Rica. For more information on study abroad, please visit [deakin.edu.au/studyoverseas](https://deakin.edu.au/studyoverseas).

### Global Science and Technology Program

The Global Science and Technology Program at Deakin is designed to help you add an international experience to your environment degree, supporting you to develop new skills and a broader world view while studying overseas. For more information, please visit [deakin.edu.au/sebe/global](https://deakin.edu.au/sebe/global).



Environmental management and sustainability student, Evelyn, with a 20-day-old Hatinh-Langur monkey, an endangered species, in Vietnam.



# GETTING INTO DEAKIN

Life doesn't always follow a straight line – and your path to Deakin doesn't have to either.

## Finishing Year 12?

If you are finishing Year 12, you can apply for most of Deakin's undergraduate courses commencing in Trimester 1 (March) through the Victorian Tertiary Admissions Centre (VTAC) at [vtac.edu.au](https://vtac.edu.au). For courses commencing in Trimester 2 (July) or Trimester 3 (November), apply directly to Deakin at [deakin.edu.au/apply](https://deakin.edu.au/apply).

## Finished Year 12 a few years ago?

If you're returning to study after a break, you can apply for most of Deakin's undergraduate courses (bachelor's degrees) commencing in Trimester 1 (March) through the Victorian Tertiary Admissions Centre (VTAC), or you may be able to apply directly to Deakin. For courses beginning in Trimester 2 (July) or Trimester 3 (November), apply directly to Deakin at [deakin.edu.au/apply](https://deakin.edu.au/apply).

## For international students

Once you have chosen a degree and checked all entry requirements, applying to study at Deakin is simple.

### When can I apply?

Applications for international students are open all year. There are three trimester intakes for which you can apply – March, July and November – depending on your chosen course.

### How do I apply?

Once you have organised all the necessary documentation, you can submit your application using one of the following methods:

#### Applying online

To apply online, visit the applicant portal at [deakin.edu.au/apply](https://deakin.edu.au/apply).

#### Applying by email

After completing the relevant application forms you can email your application to [deakin-int-admissions@deakin.edu.au](mailto:deakin-int-admissions@deakin.edu.au).

## What are pathways?

Pathways provide alternative options for entry into university if you currently do not meet the requirements. You can choose pathways through TAFE, other tertiary institutions or private providers, through the workforce or even through other Deakin courses or campuses.

### Pathways through Deakin

You can take many different pathways through Deakin to get into your dream course, including transferring between Deakin courses or campuses, or undertaking a single unit of study, which can be used as credit towards a degree.

### Pathways through Deakin College

Deakin College offers an excellent pathway to Deakin for students who do not meet the admission requirements for their chosen course. The first year of a Deakin College diploma is equivalent to the first year of the relevant Deakin degree. Upon satisfactory completion of a Deakin College diploma, and subject to meeting University entrance criteria, domestic graduates are eligible to apply for a Commonwealth Supported Place in the second year of the relevant Deakin undergraduate degree.

Deakin College is located at Deakin's Melbourne Burwood Campus, Geelong Waterfront Campus and Geelong Waurin Ponds Campus, giving you access to Deakin's facilities and services and allowing you to get involved in uni life while at Deakin College.

### Pathways through TAFE

If you undertake an eligible TAFE course in a field similar to the Deakin course of your choice, you may be able to gain a guaranteed place and credit for prior learning towards your Deakin degree.

#### Complete a guaranteed entry pathway

Guaranteed entry pathways enable you to progress seamlessly from selected TAFE courses to Deakin degrees. Deakin offers guaranteed entry pathways from a number of TAFE partners to university in a growing range of disciplines.

If you are taking a guaranteed entry pathway, as long as your study performance meets the required standard, you will be guaranteed a place at Deakin following successful completion of your TAFE course and benefit from up to 18 months' credit towards your Deakin degree.

Currently, guaranteed entry pathways are available at Bendigo TAFE, Box Hill Institute, Chisholm, The Gordon, Kangan Institute, Melbourne Polytechnic, South West Institute of TAFE and TAFE NSW – Riverina Institute. For the most up-to-date list of guaranteed pathways, visit [deakin.edu.au/pathways](https://deakin.edu.au/pathways).

#### Complete a relevant TAFE course

If you undertake an eligible TAFE or Registered Training Organisation (RTO) course in a field similar to the Deakin course of your choice, you may gain credit towards your Deakin degree. A wide range of courses lead to credit transfer and recognition, and all TAFE qualifications are considered for application to Deakin.

### Pathways through other educational institutions

If you're currently studying at another university and wish to transfer to Deakin to finish your degree, you can apply for credit for prior learning. All university and private education provider qualifications are considered for application, even if the qualification is unrelated to what you want to study at Deakin.

### Pathways through the workforce

You may be able to gain entry to Deakin, or credit towards a Deakin course, based on your work experience or prior industry training.



For more information on getting into Deakin, visit [deakin.edu.au/pathways](https://deakin.edu.au/pathways).



# COURSES

Course duration in years **3**  
 Melbourne Burwood Campus **B**  
 Geelong Waterfront Campus **WF**  
 Geelong Warrnambool Campus **WP**  
 Warrnambool Campus **WB**  
 Cloud Campus **C**

	Campus	Trimester intake options	Duration	Fees <sup>#</sup>	IELTS <sup>~</sup>	Page
<i>Bachelor of ...</i>						
Environmental Science (Environmental Management and Sustainability)   S398	<b>B</b>	T1, T2	<b>3</b>	\$8735	6/6	9
Environmental Science (Marine Biology)   S399	<b>WB</b>	T1, T2	<b>3</b>	\$8906	6/6	12
Environmental Science (Wildlife and Conservation Biology)   S393	<b>B</b>	T1, T2	<b>3</b>	\$8782	6/6	10
Global Science and Technology Program*	<b>B WP WB</b>	^	^	N/A	6/6	14
<b>Related courses</b>						
<i>Bachelor of ...</i>						
Science <sup>¥</sup>   S320 <i>With a major sequence in environmental science, fisheries and aquaculture<sup>†</sup> or freshwater biology<sup>†</sup></i>	<b>B WP WB</b>	T1, T2	<b>3</b>	\$8807	6/6	15
<b>Combined courses – with a major sequence in environmental science</b>						
<i>Bachelor of ... / Bachelor of ...</i>						
Arts/Science <sup>¥</sup>   D311	<b>B WP</b>	T1, T2, T3 <sup>§</sup>	<b>4</b>	\$7683	6/6	
Commerce/Science <sup>¥</sup>   D321	<b>B</b>	T1, T2	<b>4</b>	\$9447	6/6	
Science/Laws <sup>¥</sup>   D331	<b>B</b>	T1, T2	<b>5</b>	\$9639	7/6.5	
Bachelor of Science/Master of Teaching (Secondary) <sup>¥</sup>   D304	<b>B</b>	T1	<b>4</b>	\$8807	7/6.5	

<sup>#</sup> 2016 indicative Commonwealth Supported Place (CSP) fee. Fees quoted are for Australian domestic students and are based on a typical enrolment in one year of full-time study. They should be used as a guide only and are subject to change. International students: refer to [deakin.edu.au/study-at-deakin/fees](https://deakin.edu.au/study-at-deakin/fees) for more information on fees.

<sup>~</sup> IELTS is the International English Language Testing System (for international students only). The IELTS scores in the table above reflect the minimum overall score required as well as the lowest score allowed for any band (overall score/lowest band score).


<sup>\*</sup> Available for high-achieving students with a minimum ATAR of 80.00. Applicants must also meet the published prerequisites for their specific course preference within the Faculty of Science, Engineering and Built Environment.

<sup>^</sup> Refer to specific course entry.

<sup>¥</sup> Please refer to the 2017 Undergraduate Science booklet for more information or by visiting [deakin.edu.au/courses](https://deakin.edu.au/courses).

<sup>†</sup> Warrnambool Campus: The major sequences in fisheries and aquaculture and freshwater biology are only available at the Warrnambool Campus. Warrnambool students may also complete the mathematical modelling major, which is offered via the Cloud Campus. Students who wish to complete the freshwater biology or fisheries and aquaculture major may commence their study at Melbourne Burwood Campus or Geelong Warrnambool Campus and then relocate to the Warrnambool Campus to complete the requirements of these major study areas.

<sup>§</sup> Trimester 3 intake only available at Melbourne Burwood Campus.

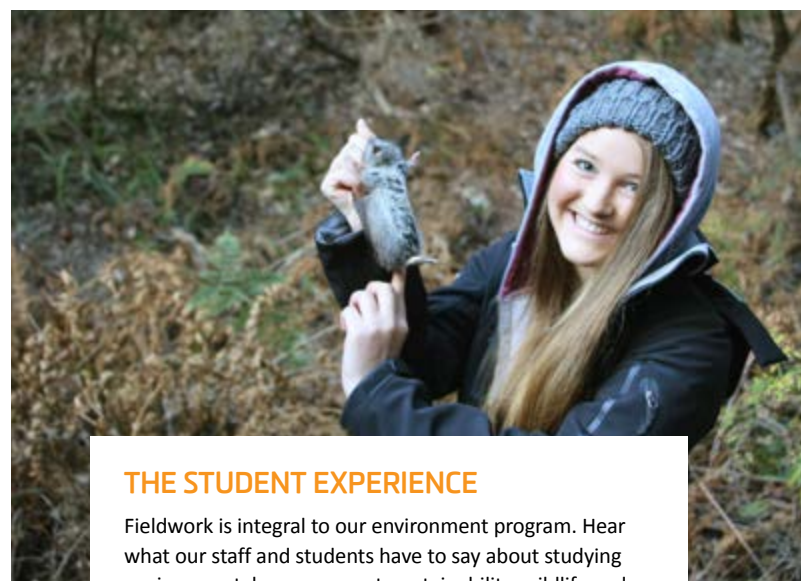
 Please refer to [deakin.edu.au/courses](https://deakin.edu.au/courses) for the most up-to-date information on courses.

## GETTING TO GEELONG

Travel to the Geelong campuses is easy, whether by train, bus, car or bike. If you're based in Melbourne, the commute to Geelong with the new regional rail link is incredibly fast, with travel from Southern Cross Station to Warrnambool just over an hour. If you live in Melbourne's west, you may find your commute is as short as 30 minutes by car.

We also offer accommodation at each of our campuses, providing an affordable and secure living and learning community, ideal for personal growth and academic success.

Find out more about our locations at [deakin.edu.au/life-at-deakin/our-locations](https://deakin.edu.au/life-at-deakin/our-locations) and our accommodation by visiting [deakin.edu.au/life-at-deakin/accommodation](https://deakin.edu.au/life-at-deakin/accommodation).



## THE STUDENT EXPERIENCE

Fieldwork is integral to our environment program. Hear what our staff and students have to say about studying environmental management, sustainability, wildlife and conservation biology at Deakin: [deakin.yt/env](https://deakin.yt/env). Interested in hearing about marine biology, fisheries and aquaculture at Deakin? Visit [deakin.yt/marine](https://deakin.yt/marine) to find out more.



'Deakin opened up great networking opportunities for me, being taught by experienced academics who have worked in the field. I experienced the difficulties and victories of managing my own project during my honours year and earned a great result with the support of peers, staff, supervisors and industry contacts.'

### JACKSON CLERKE



Environmental science (environmental management and sustainability) graduate,  
Environmental science (honours) student



### HAPPINESS LEADS TO SUCCESS

For six consecutive years, Deakin has achieved the highest level of overall student satisfaction amongst Victorian universities. These great results are based on 2010–2015 Australian Graduate Survey responses to 'Overall Satisfaction' amongst bachelor's degree graduates.

## BACHELOR OF ENVIRONMENTAL SCIENCE (ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY)

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
S398		 60.15
YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS	
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.	Educational history including GPA. Applicants who wish for experience to be considered must include this information on their VTAC Personal Statement.	

International student entry requirements can be found at:  
[deakin.edu.au/study-at-deakin/international-students](http://deakin.edu.au/study-at-deakin/international-students).

Develop the skills and knowledge to enable you to manage the interaction between people and the environment, at the same time meeting society's needs for clean water, fresh air and healthy soils through the sustainable use of natural resources, environments and ecosystem services.

Design your own career direction in environmental management by choosing elective units in areas such as wildlife management, coastal and marine management, environmental sustainability, natural resources management, environmental protection, and environmental policy and planning.

### Career opportunities

Diverse career opportunities include environmental planning, environmental policy, sustainability, environmental protection, climate change adaptation and mitigation, industry-based environmental management, waste management, environmental education, catchment management, water resource management, land rehabilitation, pollution control, environmental science, wildlife management, conservation, and coastal and park management.

### Work-integrated learning

A professional practice unit allows you to complete a placement for a minimum of two weeks within a relevant, course-related organisation.

### Course structure

24 credit points, including 15 core units and nine elective units. An honours year is available for high-achieving students upon completion of this degree.



[deakin.edu.au/study-at-deakin/find-a-course/  
environmental-management-and-sustainability](http://deakin.edu.au/study-at-deakin/find-a-course/environmental-management-and-sustainability)



# COURSES

## BACHELOR OF ENVIRONMENTAL SCIENCE (WILDLIFE AND CONSERVATION BIOLOGY) B

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
S393	<span style="border: 1px solid black; padding: 0 2px;">3</span>	<span style="background-color: red; color: white; padding: 0 2px;">B</span> 70.34
YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS	
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.	Educational history including GPA. Applicants who wish for experience to be considered must include this information on their VTAC Personal Statement.	

International student entry requirements can be found at: [deakin.edu.au/study-at-deakin/international-students](http://deakin.edu.au/study-at-deakin/international-students).

Offered at the Melbourne Burwood Campus, Deakin's wildlife and conservation biology course was the first to be offered in Victoria with a major focus in this area. The Bachelor of Environmental Science (Wildlife and Conservation Biology) combines theoretical and practical expertise in a range of discipline areas, such as biodiversity, wildlife ecology, landscape and vegetation management, conservation, animal biology and park management.

Get out of the classroom and into nature, learn skills such as how to handle native animals, measuring the health of freshwater environments, coastal planning, surveying wildlife populations or conducting sustainability assessments.

### Career opportunities


Graduate ready to take up challenging roles such as wildlife officer, conservation officer, wildlife manager, park ranger, project officer, research scientist, wildlife biologist, conservation biologist or landscape ecologist.

### Work-integrated learning

A professional practice unit gives allows you to complete a placement within a relevant, course-related organisation.

### Course structure

24 credit points – 17 core units and seven elective units. An honours year is available for high-achieving students upon completion of this degree.

 [deakin.edu.au/study-at-deakin/find-a-course/wildlife-and-conservation-biology](http://deakin.edu.au/study-at-deakin/find-a-course/wildlife-and-conservation-biology)



Dr Euan Ritchie, and Jim Thomas (Tenkile Conservation Alliance), setting up camera traps to survey for rare and critically endangered mammals.

## YOUR DIGITAL LEARNING TOOLS

DeakinSync is a personal online hub giving Deakin students, staff and alumni easy access to relevant University resources, customised to their specific needs. You can access everything from unit sites to enrolment details, study tools to your calendar, as well as IBM Watson – a question and answer tool.

Visit [deakin.edu.au/deakinsync](http://deakin.edu.au/deakinsync) or [ibmwatson.deakin.edu.au](http://ibmwatson.deakin.edu.au) for more information.

IBM Watson is a trademark of International Business Machines Corporate, registered in many jurisdictions worldwide.







## REMOTE PAPUA NEW GUINEA DISCOVERY

Deakin ecologist Dr Euan Ritchie and Jim Thomas of the Tenkile Conservation Alliance may have discovered three new mammal species in remote Papua New Guinea. In the first comprehensive camera trapping study of endangered species ever to be conducted in Papua New Guinea's Torricelli Mountain Range, Dr Ritchie, Jim Thomas and their team attached motion-activated infrared cameras to trees in the rainforest. The cameras then snapped photos of animals every time they walked past over the next several months. In the process of their research, three new mammals may have been discovered: a miniature wallaby (probably within the genus *Dorcopsulus*), about the size of a domestic cat; a giant eared mouse; and a type of *Antechinus*, a shrew-like marsupial.

'Field research is a real buzz and even better still is when it can help to protect the world's many species. We are in the midst of a global extinction crisis and now more than ever science is needed to help reverse this diabolical trajectory and ensure future generations can inherit a world still rich with natural wonders.'

### DR EUAN RITCHIE

Senior lecturer, School of Life and Environmental Sciences



The Asian Conservation and Environment Sustainability international study tour to Borneo gives students the opportunity to learn about different species and environments out in the field.





# COURSES

Course duration in years	3
Melbourne Burwood Campus	B
Geelong Waterfront Campus	WF
Geelong Waurn Ponds Campus	WP
Warrnambool Campus	WB
Cloud Campus	C

## BACHELOR OF ENVIRONMENTAL SCIENCE (MARINE BIOLOGY) WB

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
S399	3	<span>WB</span> 51.85
YEAR 12 PREREQUISITES	NON-YEAR 12 REQUIREMENTS	
VCE units 3 and 4 – a study score of at least 25 in English (EAL) or 20 in English other than EAL.	Educational history including GPA. Applicants who wish for experience to be considered must include this information on their VTAC Personal Statement.	

International student entry requirements can be found at:  
[deakin.edu.au/study-at-deakin/international-students](http://deakin.edu.au/study-at-deakin/international-students).

Our marine biology program is located at Deakin's Warrnambool Campus on the Great Ocean Road coastline. It provides a unique opportunity to study temperate marine biology in a marine environment that has some of the highest biodiversity in Australia. The course has a strong ecological focus, linking biological and oceanographic processes in the study of marine environments.

Each year staff and students complete data collection (a full-island count) of newborn Australian fur seal pups at the Kanowna Island field site, part of long-term monitoring to assess the productivity of the Bass Strait ecosystem.

### Career opportunities

Diverse career opportunities include marine biology tour guide, fishery officer, marine biology consultant, laboratory technician, local government environmental officer, aquaculture manager and sustainability project officer, as well as moving into research or pursuing postgraduate study.

### Work-integrated learning

A professional practice unit gives you the chance to undertake a placement for a minimum of two weeks within a course-related organisation.

### Course structure

24 credit points of study – 21 core units and three elective units. An honours year is available for high-achieving students upon completion of this degree.



[deakin.edu.au/study-at-deakin/find-a-course/marine-biology](http://deakin.edu.au/study-at-deakin/find-a-course/marine-biology)



Students on a field trip to the rockpools in Warrnambool.



'Our marine biology program provides a unique opportunity to study temperate marine biology in a marine environment that has some of the highest biodiversity in Australia.'

### DR JULIE MONDON

Course director,  
Environmental science (marine biology)



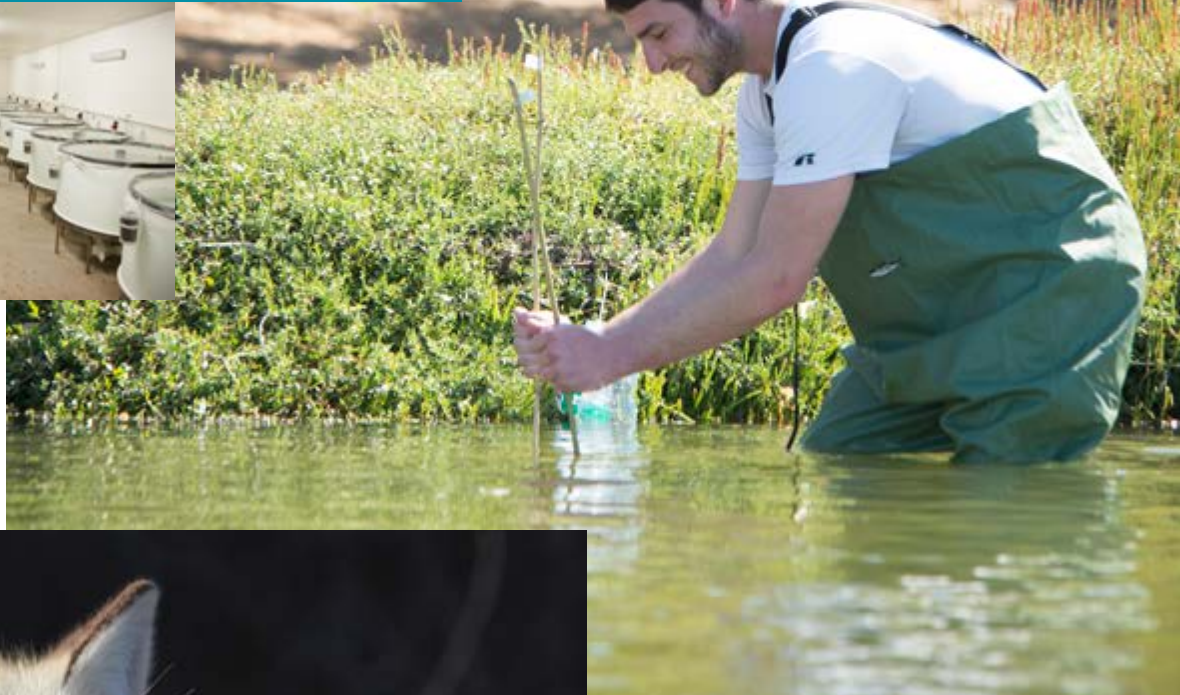
## AQUATIC SCIENCE AT YOUR FINGERTIPS

The proximity of the Warrnambool Campus to a range of aquatic environments makes it an ideal location for specialist studies in marine biology, freshwater biology and fisheries and aquaculture.

Understanding and managing the threats facing Australia's marine and freshwater ecosystems requires a multidisciplinary approach to research and teaching. At Deakin you will gain an understanding of the ecology and management of coastal marine, estuarine and freshwater ecosystems; cutting-edge technologies for mapping marine habitats; the effects of a drying climate on ecological function and biodiversity in rivers and streams; the impacts and risk assessment of aquatic pollution; river restoration; the ecology and management of marine wildlife and fisheries; aquatic animal health and sustainable aquaculture.



Aquaculture facility at the Warrnambool Campus.



## WHAT'S IT LIKE TO BE AN ECOLOGIST?

Dr Alexander Wilson joined Deakin earlier this year as an Alfred Deakin Postdoctoral Research Fellow in the School of Life and Environmental Sciences. He is also a member of the Centre for Integrative Ecology based in the school. He says being an ecologist is rewarding in many ways.

'I get to be outside, observing animals in their natural environment,' Dr Wilson says. 'This often means I get to travel to interesting places in the world and these can be among the most beautiful, pristine, remote places on Earth. Of course, more often than not my work is in a field, muddy stream or swamp, but I enjoy it all the same.'

'My job lets me learn more about the animals I study – my neighbours – and why they do what they do. When approaching my work from a conservation standpoint, it also helps to figure out what steps might be necessary to make sure that they stay as they are and don't disappear as a result of our human activities.'

Australia has such an amazing diversity of species and environments – the research possibilities are near endless. This, combined with a number of pressing conservation needs, provides an opportunity to do interesting curiosity-driven research with real-world applications.



# COURSES

Course duration in years	3
Melbourne Burwood Campus	B
Geelong Waterfront Campus	WF
Geelong Waurn Ponds Campus	WP
Warrnambool Campus	WB
Cloud Campus	C

## GLOBAL SCIENCE AND TECHNOLOGY PROGRAM

DEAKIN CODE	DURATION	2016 CLEARLY-IN ATAR
Refer to specific course entry.		<div>B</div> 80.00*
		<div>WF</div> 80.00*
		<div>WB</div> 80.00*
YEAR 12 PREREQUISITES	EXTRA REQUIREMENTS	
Applicants must meet the prerequisites for their specific environment course preference. Minimum ATAR of 80.00.	All applicants must complete and submit the Global Science and Technology Program Supplementary Information Form ( <a href="http://deakin.edu.au/sebe/global">deakin.edu.au/sebe/global</a> ).	

The Global Science and Technology Program at Deakin is designed to add an international experience to your environment degree. A minimum clearly-in ATAR of 80.00 is required for entry into this program. Successful applicants will be offered a scholarship of \$3000 to assist with travel costs and will participate in the Deakin Global Citizenship Program. Scholarships will be awarded to students undertaking any course offered by the Faculty of Science, Engineering and Built Environment, who have been admitted to the Global Science and Technology Program through VTAC.

### Course structure

You are able to select any one of the undergraduate degrees offered by the Faculty of Science, Engineering and Built Environment through a single VTAC preference for the Global Science and Technology Program.

It is recommended that applicants also apply separately for their Deakin science-based course as a lower preference. Refer to specific course entries and campus offerings in this booklet for the list of environment courses available.

\* Minimum clearly-in ATAR. Applicants must also meet the published prerequisites for their specific course preference within the Faculty of Science, Engineering and Built Environment.

 [deakin.edu.au/sebe/global](http://deakin.edu.au/sebe/global)

Global Citizenship Program students in Nepal.  
For more information, visit [deakin.edu.au/students/global-study-opportunities/global-citizenship-program](http://deakin.edu.au/students/global-study-opportunities/global-citizenship-program).







'The wildlife and conservation biology course encompasses my interests and passions for wildlife, the environment and its conservation. There is a lot of practical and hands-on experience built into the degree, which really appeals to me.'

### MEGAN TAYLOR

Environmental science (wildlife and conservation biology) student



Students at Cape Otway field trip.

## RELATED COURSES

### BACHELOR OF SCIENCE – MAJOR SEQUENCE IN ENVIRONMENTAL SCIENCE 3 B

This major sequence focuses on the technical science aspects of environmental science and aims to provide an even balance between environmental studies on the geosphere, hydrosphere, atmosphere and biosphere.

### BACHELOR OF SCIENCE – MAJOR SEQUENCE IN FRESHWATER BIOLOGY 3 WB

Freshwater biology is the study of freshwater ecosystems and the relationships between freshwater organisms and their physical and chemical environment. Focused on understanding and managing rivers, lakes and wetlands, develop the knowledge and skills to manage freshwater ecosystems and resources, while participating in fieldwork opportunities and industry placements.

### BACHELOR OF SCIENCE – MAJOR SEQUENCE IN FISHERIES AND AQUACULTURE 3 WB

The fisheries and aquaculture major sequence provides you with comprehensive training in fisheries resource management, aquaculture management and fisheries biology, with a focus on environmental sustainability, particularly renewable resource exploitation and sustainable aquaculture of marine and freshwater species. Learn about fisheries and aquaculture from a global perspective, including topics such as fish markets, nutrition and farm certification processes, the history of Australian fisheries, fisheries methods and impacts of fishing.

Field trips and professional practice activities provide you with the opportunity to gain practical, hands-on skills.



For more information about these courses please refer to the 2017 Undergraduate Science booklet or visit [deakin.edu.au/study-at-deakin/find-a-course/science](https://deakin.edu.au/study-at-deakin/find-a-course/science).



# COURSES TO CAREERS

At Deakin, we're about careers and experience, not just courses. Here are just a few of your future career opportunities.



**EXPLORE**  
KICKSTART YOUR COURSE AND CAREER EXPLORATION

Visit [explore.deakin.edu.au](https://explore.deakin.edu.au) to kickstart your course and career exploration at Deakin. With more than 600 paired courses and careers, it's the perfect destination for you to explore your future career.

## COURSE

Bachelor of Environmental Science  
(Environmental Management and Sustainability)



## POSSIBLE CAREERS

- Ecologist
- Climate change campaigner
- National park manager
- Natural resource manager
- Sustainability consultant

Bachelor of Environmental Science  
(Marine Biology)



- Aquaculture manager/scientist
- Coastal project officer
- Fisheries officer
- Laboratory scientist
- Marine biologist

Bachelor of Environmental Science  
(Wildlife and Conservation Biology)



- Environment consultant
- Landscape ecologist
- Mammalogist
- Park ranger
- Wildlife/conservation biologist

## AREAS YOU COULD WORK IN

- Aquaculture
- Climate change adaptation and mitigation
- Coastal and park management
- Environmental education
- Environmental management
- Environmental planning
- Fisheries
- Land rehabilitation
- Marine biology
- Natural resources management
- Park management
- Research
- Sustainable resource management
- Water resource management
- Wildlife and conservation biology

## WHAT EMPLOYERS WANT IN THEIR EMPLOYEES

- Interpersonal communication skills
- Passion
- Logic and technical skills
- Good academic results
- Work experience
- A good cultural fit
- Emotional intelligence
- Teamwork skills
- Leadership skills

Source: Graduate Outlook Survey, Graduate Careers Australia



## FEATURE CAREER

### Ecologist

Ecologists are concerned with ecosystems as a whole, the abundance and distribution of organisms (people, plants, animals), and the relationships between organisms and their environment.

#### Attributes

Analysis and critical thinking skills; attention to detail; research skills; teamwork and project management skills; a passion for the environment.

#### Indicative average salary

\$75 000

## FEATURE INDUSTRY

### Forestry

Forestry includes businesses that grow, maintain and harvest our forests sustainably. Forests and their resources (the wood) have the potential to make a significant contribution to Australia's smart, low-carbon economy of the future.

#### Attributes

Analysis and critical thinking skills; attention to detail; research skills; teamwork and project management skills; a passion for the environment.

#### Indicative average salary

\$52 000



A wide-angle photograph of a dirt path winding through a green, wooded area. Several students are walking along the path, some in the distance and others closer. The scene is bright and sunny.

# FIND OUT MORE

## GO ONLINE

Visit us online at [deakin.edu.au](http://deakin.edu.au) for detailed information on everything at Deakin.

See also ...

[deakin.edu.au/study-at-deakin/find-a-course/environment](http://deakin.edu.au/study-at-deakin/find-a-course/environment)

[deakin.edu.au/life-environmental-sciences](http://deakin.edu.au/life-environmental-sciences)

[deakin.edu.au/study-at-deakin/find-a-course/new-courses](http://deakin.edu.au/study-at-deakin/find-a-course/new-courses) for up-to-date information on new courses and unit offerings

[deakin.edu.au/courses](http://deakin.edu.au/courses) for more information about course structures.

## TALK TO US

For more information and all general enquiries, please phone 1800 MYFUTURE (1800 693 888).

You can also contact us via email at [myfuture@deakin.edu.au](mailto:myfuture@deakin.edu.au).

## VISIT US

There are many opportunities throughout the year to visit Deakin, experience a campus tour and talk with representatives in person.

To organise a campus tour and presentation for an individual or group, please phone 1800 MYFUTURE (1800 693 888), email [myfuture@deakin.edu.au](mailto:myfuture@deakin.edu.au) or visit [deakin.edu.au](http://deakin.edu.au).

For our 2016 Open Day dates, see the back cover of this booklet.

For more information on event dates, visit [deakin.edu.au](http://deakin.edu.au) or phone 1800 MYFUTURE (1800 693 888).

## Social media at Deakin

Connect with Deakin University on Facebook, Twitter, Instagram and LinkedIn. Gain an insight into life and study at Deakin and talk with other future and current students.

 [facebook.com/DeakinUniversity](https://facebook.com/DeakinUniversity)

 [twitter.com/Deakin](https://twitter.com/Deakin)

 [twitter.com/DeakinSEBE](https://twitter.com/DeakinSEBE)

 [instagram.com/DeakinUniversity](https://instagram.com/DeakinUniversity)

 Search Deakin University

## Other useful websites

Victorian Tertiary Admissions Centre.  
[vtac.edu.au](http://vtac.edu.au)

Australian Government site detailing higher-education options in Australia.  
[studyassist.gov.au](http://studyassist.gov.au)

Online career exploration and information service.  
[www.myfuture.edu.au](http://www.myfuture.edu.au)

Australian Government site providing advice for young people thinking about their future and looking for work.  
[www.youth.gov.au](http://www.youth.gov.au)

Victorian Government site with information about jobs and careers.  
[www.youthcentral.vic.gov.au](http://www.youthcentral.vic.gov.au)

## Further reading

Deakin University produces a range of booklets to help you choose the right course.

You can download copies of these brochures at [deakin.edu.au/course-guides](http://deakin.edu.au/course-guides), or to request copies email [myfuture@deakin.edu.au](mailto:myfuture@deakin.edu.au) or phone 1800 MYFUTURE (1800 693 888).

Deakin University also produces course guides specifically for international students. To request a copy, phone Deakin International on +61 3 9627 4877 or email [deakin-international@deakin.edu.au](mailto:deakin-international@deakin.edu.au).





# 2016 DEAKIN UNIVERSITY OPEN DAYS

**07.08.16**

**9 AM–3 PM**

**WARRNAMBOOL  
CAMPUS**

Princes Highway  
Warrnambool Victoria

**21.08.16**

**9 AM–3 PM**

**GEELONG  
WAURN PONDS CAMPUS**

75 Pigdons Road  
Waurnd Ponds Victoria

**GEELONG**

**WATERFRONT CAMPUS**

1 Gheringhap Street  
Geelong Victoria

**28.08.16**

**9 AM–4 PM**

**MELBOURNE  
BURWOOD CAMPUS**

221 Burwood Highway  
Burwood Victoria

**1800 MYFUTURE (1800 693 888)**  
**deakin.edu.au**

Published by Deakin University in April 2016. While the information published in this guide was accurate at the time of publication, Deakin University reserves the right to alter, amend or delete details of course offerings and other information published here. For the most up-to-date course information please view our website at [deakin.edu.au](http://deakin.edu.au).

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