“It’s an industry that allows you to be in the office some portion of the week, and to spend the remainder of the week out in the field. I think it really allows you to have a practical element and a more theoretical element in a workplace.”

Patrick McCarthy (Australia)
Bachelor of Agriculture
WHY AGRICULTURE?

The world’s population is expected to grow to 9.7 billion by 2050. Increasing global wealth will grow demand for clean, safe food and fibre production. At the same time, a changing climate and declining environmental health means agriculture must become more sustainable.

BE IN DEMAND
Agriculture is one of Australia’s fastest growing industries and was the largest contributor to Australian economic growth in 2017. This is expected to continue in response to growing demand for food and fibre from Asia. Graduates with degrees in agriculture are highly sought after, with around five jobs per graduate and a 90 per cent employment rate – that’s 12–15 per cent higher than other degrees.

BE WORK-READY
Agriculture students develop practical skills across plant and soil science, animal science and agricultural economics. They graduate with sophisticated knowledge of agricultural production from scientific, economic, environmental and ethical points of view.

If you wish to gain an understanding of how we can harness natural processes to sustainably feed our growing population, improve natural resource management and contribute to Australia’s growing agricultural industry, studies in Agriculture may be an ideal choice.

AGRICULTURE AT MELBOURNE
The Bachelor of Agriculture is an applied science degree, designed to teach you how the physical, chemical and biological sciences impact on plant and animal growth, breeding and health. In first year, you will gain a broad understanding of agricultural science, before developing a deeper understanding of the issues in agriculture and how these drive agricultural businesses and decision-making.

Most classes are taught at the University’s main campus in Parkville, with opportunities throughout the degree to study at our Dookie agricultural campus and working farm in the Goulburn Valley, about two hours’ drive north of Melbourne.

You will develop the skills and knowledge to apply new-generation technologies like drones, sensors and big data analysis to agriculture, and communication, teamwork and other interpersonal skills vital in the 21st century scientific workforce.

COURSE STRUCTURE
The Bachelor of Agriculture consists of up to 24 subjects, usually taken over three years of full-time study (equivalent to 300 credit points in total, with most subjects equal to 12.5 points). Part-time study is available.

WHAT DO I STUDY?
In first year, you will complete eight core subjects, gaining a solid foundation in agricultural science with studies in biology, natural environments, agricultural production and life sciences.

In second year, you will become familiar with the field of agriculture. You will begin working towards a major by selecting electives that align with your interests and serve as prerequisites for major subjects. You will also be able to spend a semester learning at our Dookie campus.

In third year, you will complete your major, continue to develop your skills and knowledge with specialised electives and undertake a project-based core subject that will prepare you for professional practice in agriculture.

Students who complete the pathway program, the Diploma in General Studies, will be eligible for substantial credit towards their Bachelor of Agriculture degree (see page 20 for more information).

Find out more
- fvas.unimelb.edu.au/bag
- facebook.com/FVASunimelb
- instagram.com/FVASunimelb
- twitter.com/FVASunimelb
- youtube.com/FVASunimelb
LEARN THE CONCEPTS AND CONTEXT OF AGRICULTURAL SCIENCE
In the first year of the Bachelor of Agriculture, you’ll develop a solid foundation in agricultural science. Initially you will study a common curriculum designed in consultation with industry and employers to give graduates a broad understanding of all areas of agriculture – so that ultimately, regardless of which major or subjects you pursue, you’ll have firm foundational knowledge on which to base your specialist expertise.

LEARN SCIENCE IN AN APPLIED CONTEXT
First-year subjects are designed to teach you how the physical, chemical and biological sciences impact sustainability, plant and animal growth, breeding and health.

Key concepts in physics, chemistry, mathematics and data management build your understanding of earth and soil science, water and climate issues, and plant and animal biology. Physics and chemistry help to offer insight into agricultural science.

UNDERSTAND THE AGRICULTURAL INDUSTRY
You will explore world food supply and demand and the development of agriculture globally and in Australia. You’ll learn about environmental and market conditions that govern the nature of agricultural activity in Australia, along with the key elements of farming and farm businesses that determine the success of these endeavours.

You’ll develop an understanding of whole-farm performance analysis, and how agricultural value chains change farm products in order to meet consumer needs.

This provides you with an understanding of Australia’s agricultural context and the position it occupies on a global scale.

GET TO KNOW YOUR PEERS
Bachelor of Agriculture students form a relatively small and close-knit group. Sharing a curriculum and extracurricular programs, as well as our focused teaching practice, will give you opportunities to develop lasting friendships and connections that last beyond the conclusion of your studies.

Our students come from diverse backgrounds across Australia and overseas with interests in a range of fields including farming, veterinary medicine, sustainable plant production, research, natural resource management and more.

SAMPLE COURSE PLAN – BACHELOR OF AGRICULTURE YEAR 1, ALL MAJORS

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Semester 2</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Agriculture in Australia</td>
<td>Genetics and the Evolution of Life</td>
</tr>
<tr>
<td></td>
<td>Foundations of Agricultural Sciences 1</td>
<td>Foundations of Agricultural Sciences 2</td>
</tr>
<tr>
<td></td>
<td>Biology of Cells and Organisms</td>
<td>Plant Production Systems</td>
</tr>
<tr>
<td></td>
<td>Natural Environments</td>
<td>Animal Production Systems</td>
</tr>
</tbody>
</table>
Chris Potts graduated with a Bachelor of Agriculture in 2007 and is now Regional Manager Milk Supply for Fonterra in northern Victoria, helping producers to optimise their businesses.

“My real pleasure is pulling apart a business and understanding it, trying to understand how much a farm produces. I currently manage a team of eight people, and there are not that many roles where you get that kind of experience this early in your career.”

**BACHELOR OF AGRICULTURE**

**Duration**
3 years full time
Part time available (domestic students only)

**Campus**
Parkville
Optional practical semester at Dookie

**Entry**
February (Semester 1)

**Entry requirements**

**Domestic students**
Minimum entry 2019: ATAR 70.00, IB 25

**International students**
International applicants will need to meet the academic admission and English language requirements. See: futurestudents.unimelb.edu.au

**Prerequisite subject study areas**
English and mathematics
For full details of entry requirements and information for other qualifications visit: coursesearch.unimelb.edu.au

**Contact hours (first year, full time)**
Approximately 16–22 hours per week plus independent study time of approximately 20 hours per week
CRICOS: 037228G
CHOOSE A MAJOR

When you choose a major, you can consider the option of spending a semester at the Dookie regional campus, in the Goulburn Valley.

In second year of the Bachelor of Agriculture, you’ll have the opportunity to pursue your interests by selecting one of three majors:

- Agricultural Economics.
- Plant and Soil Science
- Production Animal Science.

Summaries and sample course plans for all majors can be found on the following pages.

If you elect to take up the Dookie experience in Semester 2 you’ll be able to observe first-hand a wide variety of farming activities including cropping, livestock and dairy management, horticulture and viticulture enterprises, as well as support industries such as irrigation management, logistics and food processing operations.

ELECTIVES AVAILABLE TO ALL MAJORS INCLUDE:

- Agribusiness Marketing and Value Chains
- Animal Disease Biotechnology 1 and 2
- Animal Welfare and Ethics
- Applied Animal Behaviour
- Applied Animal Reproduction and Genetics
- Applied Crop Production and Horticulture
- Australia in the Wine World
- Comparative Nutrition and Digestion
- Enterprise Management
- Farm Management Economics
- Industry Internship
- Innovation Change and Knowledge Transfer
- Irrigation and Water Management
- Managing Production Animal Health
- Plant Health and Improvement
- Principles of Brewing
- Resource Management Economics
- Vine to Wine
- Water for Sustainable Futures.

AGRICULTURAL ECONOMICS

In the Agricultural Economics major, you will study subjects in economics, resource and farm management, and value chain analysis. You will be well equipped to analyse agricultural systems from an economic perspective, and be able to provide management advice in this context.

The major allows you to select from a broad range of subjects including plant, animal and soil health and production; natural resource and water management; brewing and viticulture; sustainability and change management. You will apply this knowledge in the economic analysis of agribusinesses in third-year subjects, including the Agricultural Economics capstone subject, Applied Farm Economic Analysis.

SAMPLE COURSE PLAN – BACHELOR OF AGRICULTURE

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1 and 2</th>
<th>All students share first year subjects; see page 4 for details.</th>
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<tbody>
<tr>
<td>Year 2</td>
<td></td>
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<tr>
<td>Semester 1</td>
<td>Agricultural Economics</td>
<td>Microbiology in Agriculture</td>
</tr>
<tr>
<td>Semester 2 (Parkville campus)</td>
<td>Principles of Soil Science</td>
<td>Elective</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>Farm Management Economics</td>
</tr>
<tr>
<td>Semester 2</td>
<td>Professional Practice for Agriculture</td>
<td>Applied Farm Economic Analysis</td>
</tr>
</tbody>
</table>

This is a sample course plan only. Subjects offered may change from year to year. You will be advised of current subject offerings prior to subject selection and enrolment.

#28 in the world for Agriculture and Forestry
– QS World University Rankings by Subject 2018
## PLANT AND SOIL SCIENCE

In the Plant and Soil Science major, you will study subjects in soil biology and management, and in plant health for growth and production.

You will gain a detailed understanding of the drivers of plant industries and how management strategies and breeding can optimise yield and product quality.

The Plant and Soil Science major will equip you to address issues in plant health and sustainable agriculture, with subjects in ecology, water and soil management, plant growth and nutrition. It will provide you with a strong understanding of agronomy: the science of using plants for food, fuel, fibre, and land reclamation. Agronomy is fundamental to most fields of agriculture and leads to a range of careers.

Students in the Plant and Soil Science major may choose to spend Semester 2 of their third year based at the University’s Dookie campus in the Goulburn Valley, one of Australia’s key regions for the horticultural, dairy, cropping and associated industries.

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### SAMPLE COURSE PLAN – BACHELOR OF AGRICULTURE

#### MAJOR IN PLANT AND SOIL SCIENCE

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1 and 2</th>
<th>Seminars 1</th>
<th>Microbiology in Agriculture</th>
<th>Biochemistry in Agricultural Systems</th>
<th>Plant Growth Processes</th>
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<tbody>
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<tr>
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<th></th>
<th>Seminars 2</th>
<th>Crop Production and Management</th>
<th>Enterprise Management</th>
<th>Principles of Soil Science</th>
<th>Applied Crop Production and Horticulture</th>
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<td>Principles of Soil Science</td>
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<td></td>
<td></td>
<td>Ecology and Grazing Management</td>
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<th>Elective</th>
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<td>Soil Management</td>
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<td>Irrigation and Water Management</td>
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<th>Year</th>
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<th>Seminars 4</th>
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<tr>
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<td>Professional Practice for Agriculture</td>
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<th>Seminars 5</th>
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<td>Soil Management</td>
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<td></td>
<td>Plant Health and Improvement</td>
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Hayley Purbrick graduated from the Bachelor of Agriculture in 2005 and worked in Ernst & Young’s corporate tax team before re-joining Tahbilk Winery, where she is the Environment Manager.

“The Bachelor of Agriculture is a diverse degree with a multitude of opportunities. Just remember every opportunity starts and ends with a person – so get that degree but use it as a chance to meet people in the industry, make friendships and see where it leads.”

This is a sample course plan only. Subjects offered may change from year to year. You will be advised of current subject offerings prior to subject selection and enrolment.
SECOND YEAR

PRODUCTION ANIMAL SCIENCE

In the Production Animal Science major, you will study subjects in animal biology, genetics and breeding, nutrition, physiology, health and welfare.

Students who complete this major will be well equipped to study the University of Melbourne’s Doctor of Veterinary Medicine degree, with an applied knowledge of animal science.

You will gain a detailed understanding of animal production industries, and how management strategies can optimise growth and product quality.

In the Production Animal Science major, you will follow your shared first year curriculum with subjects designed to develop your understanding of biochemistry and microbiology in an agricultural context. You will apply this knowledge in a range of third-year topics including animal disease, production and growth, behaviour and welfare, including this major’s capstone subject, Production Animal Physiology.

SAMPLE COURSE PLAN – BACHELOR OF AGRICULTURE
MAJOR IN PRODUCTION ANIMAL SCIENCE

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester 1 and 2</th>
<th>All students share first year subjects; see page 4 for details.</th>
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<tbody>
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<td></td>
<td>Agricultural Economics</td>
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<td></td>
<td></td>
<td>Semester 2 (Parkville campus)</td>
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<td></td>
<td></td>
<td>Semester 1</td>
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<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

DOOKIE SEMESTER

Students undertaking any of the majors may choose to spend Semester 2 of their second year living and studying at the Dookie campus. This option is known as the Dookie Semester, and will give you the opportunity to learn while immersed in an agricultural context.

Scholarships are available to facilitate the move to Dookie, and accommodation costs are low relative to a similar standard of accommodation in the city. Students may also choose to improve their practical experience through activities and skills-based training qualifications.

The Enterprise Management subject will allow you to further develop your understanding of the industry via weekly farm enterprise visits. You will identify the inputs and resources necessary for a successful enterprise and develop skills in business planning, performance monitoring and reporting.

SAMPLE COURSE PLAN – BACHELOR OF AGRICULTURE
ALL MAJORS, DOOKIE SEMESTER

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Dookie Semester (Semester 2)</th>
<th>Ecological and Grazing Management</th>
<th>Enterprise Management</th>
<th>Principles of Soil Science</th>
<th>Applied Crop Production and Horticulture</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Core Agricultural subjects</td>
<td>Major subjects</td>
<td>Elective subjects</td>
<td></td>
</tr>
</tbody>
</table>

This is a sample course plan only. Subjects offered may change from year to year. You will be advised of current subject offerings prior to subject selection and enrolment.
THIRD YEAR

APPLY YOUR AGRICULTURAL KNOWLEDGE
In the third year of the Bachelor of Agriculture, you will further develop specialised knowledge through your major. You’ll work with students from other specialisations to apply your skills to find solutions to real-world agricultural issues.

COMPLETE YOUR MAJOR
You will complete your major via two capstone subjects: in-depth classes in which you will learn to apply theory and judgement developed during your major to diagnose common issues and design management interventions for agricultural enterprises. On completing these subjects, you will be able to demonstrate your ability to address issues in your area of expertise.

BUILD 21ST CENTURY WORKPLACE SKILLS
Modern agricultural and scientific workplaces require high levels of communication and collaboration between people with specialised skills and different backgrounds. Employers seek workers with strong teamwork, communication, networking and leadership skills. In the Bachelor of Agriculture, you’ll have opportunities to practise presenting problems, learning how to approach difficult workplace situations, and showcasing your work to industry. In the third-year subject Professional Practice for Agriculture, you will address issues important to the productivity and sustainability of agricultural industries individually and in collaboration with a team.

PROFESSIONAL PRACTICE FOR AGRICULTURE
This subject will give you the opportunity to apply the theoretical and practical knowledge you acquired during your Bachelor of Agriculture degree to analyse large-scale challenges confronting agricultural industries.

You will examine different perspectives and propose options for improvements in current issues like:

- Adoption of new technologies
- Animal welfare
- Chemical use
- Environmental sustainability
- Water management.

You will work individually and in small groups with peers from other majors to apply your range of knowledge in value chain analysis, animal health and nutrition, plant growth or water management and improvements relevant to the industry.

You will apply a ‘systems thinking’ approach to problems – considering the complete context of an agricultural enterprise, including relevant scientific, environmental, economic, social and political factors.

You will also develop your skills in gathering and interpreting evidence, teamwork, and oral and written communication.

“There’s no one career path; you can change your career a hundred times… from soil science to plants to marketing. On the other side there are the animals, with veterinary science and animal health, production and nutrition. The scale of agriculture is just amazing and I think there’s a career for everyone in it.”

Rhiannan McPhee (Australia)
Bachelor of Agriculture
ENHANCE YOUR STUDY

University life is not just about going to class and studying for exams. The best way to make the most of your time on campus is by taking advantage of all that the University of Melbourne has to offer. Opportunities include complementary academic study, options for exchange and study abroad and student clubs and societies.

STUDY ABROAD AND EXCHANGE
We encourage all Bachelor of Agriculture students to undertake part of your degree overseas. By doing so, you can immerse yourself in a different social, cultural and intellectual scene, with the chance to add an international perspective to your studies. You can study overseas either as an exchange student or a study abroad student.

mobility.unimelb.edu.au

INTERNSHIPS
Local and international internships provide you with the opportunity to integrate the knowledge and skills you have developed in your course with genuine work experience. In addition to developing job-ready skills, you will improve your knowledge of how science and technology is applied in different organisations and explore potential career paths. We encourage our students to consider placements or internships throughout their degree to gain important experience in industry, and we will advertise these regularly through our channels. You will also be able to enrol in a research or internship subject during your third year.

INDUSTRY SEMINARS AND EVENTS
There are many opportunities to network and build connections while you’re at university, and it’s never too early to start thinking about your career. You will be able to develop job preparedness and interview skills and meet industry representatives at events in the second and third years of your degree.

VOLUNTEERING OPPORTUNITIES
There are many volunteering opportunities available. They are a great way to work on your communication skills, learn new things outside your study area, and add valuable experience to your resume.

STUDENT CLUBS AND SOCIETIES
Joining a club or society is a great way to continue some of the extracurricular activities you already love, find a new interest or meet like-minded friends from within or outside of your degree.

The University has over 200 clubs and societies, so find those that fit your interests, join up and get involved!

MENTORING
Connect with a mentor who will share their experience of transitioning to work, advise you on career options and help you build your professional networks.
YOUR NETWORK

When you join the University of Melbourne, you will gain access to a network of agricultural experts, industry representatives, employers, mentors and peers via our staff, student and alumni. From the day you start, you will be part of a community of people passionate about the future of agriculture.

YOUR TEACHERS

As Australia’s leading university, Melbourne attracts outstanding academic staff who come to collaborate, learn and teach with the very best. You will be taught by some of the country’s foremost experts, known globally for their contribution to the agricultural industry. You really can’t help but be inspired.

YOUR CITY

Melbourne is both a key market for fresh food and a centre for science and professional services that contribute to agriculture. Major businesses and organisations in the city include biotechnology and other research, agricultural finance, trade, sales, food processing and distribution. Around half of our agriculture graduates work in metropolitan areas.

YOUR PEERS

The University of Melbourne’s agriculture cohort is a tight-knit group of around 200 students. Student society social events, sports, agricultural competitions, activities and the opportunity to study at Dookie will help you to form long-term friendships and networks. You’ll also gain access to the University’s wide range of societies, with interests as diverse as drones and robotics, wine, chess and community service.

YOUR FACILITIES

Agricultural teaching facilities at the University’s Parkville city campus are being upgraded in 2018 to provide brand new labs, learning and social spaces in 2019. Dookie campus accommodation and teaching spaces have recently been upgraded, allowing you to learn agriculture in a farming context without sacrificing comfort.

YOUR ALUMNI

At Melbourne, you’ll have opportunities to grow your network via alumni at industry events and special guest lectures. If you opt for the Dookie Semester (see page 8), you will have the chance to work directly with a mentor. In recent years our graduates have joined employers including Agriculture Victoria, NAB, ANZ, Fonterra, Murray Goulburn, Warakirri Cropping, Rural Bank, Rabo Bank, Stock and Land, Swan Hill Chemicals and Perfection Fresh.
Parkville is the University of Melbourne’s main campus, just north of the heart of the city.

The Parkville campus is home to a range of world-class teaching facilities, which will soon include a new Western Edge Biosciences teaching building on Royal Parade. This building will be an active and flexible learning environment, designed specifically for students in the biological sciences. Housing purpose-built wet and dry teaching labs, and various formal and informal learning spaces, the building allows for several classes to run simultaneously within the same area.

With a rich facade and a welcoming nature-based design, the layout will blend interior and exterior spaces. The impressive landscape design references the University’s historical System Garden, which will be visible from the informal areas inside.

Elsewhere on Parkville campus, you will have access to libraries, cafes, study spaces and gardens. The campus also hosts a range of student activities, clubs, sport and seminars.
The University of Melbourne’s Dookie campus is an agricultural facility set on the tranquil rolling hills between Shepparton and Benalla in Victoria, Australia.

Situated on 2440 hectares, the campus includes a small community housing students, teaching staff, over 5000 merino sheep, a robotic dairy, a working winery and brewery, an orchard and a natural bush reserve.

It has played a key role in the development of agriculture and agricultural teaching and learning in Australia since 1886 and it remains an important centre of research, teaching and technology development that is helping to shape the future of agriculture in Australia.

Dookie’s main student accommodation and teaching facilities have recently been upgraded to a high standard, with modern kitchens, bathrooms and group and individual learning spaces for Bachelor of Agriculture students.

fvas.unimelb.edu.au/dookie
SCHOLARSHIPS

The Melbourne Scholarships Program is one of the most comprehensive and generous in Australia. With over 1200 scholarships available for new and current students – such as the $30 000 William Allen Stewart Scholarship for domestic and international undergraduate agriculture students – it’s more than likely there is one that you’re eligible for.

For many of our undergraduate scholarships we’ll assess your eligibility when you apply for your course, so you don’t need to put in a separate application.

Check out what’s available and find the right scholarship for you at:

scholarships.unimelb.edu.au

Emily Webb-Ware is supported in her Agriculture studies by the prestigious William Allen Stewart Scholarship, which is worth up to $30 000 over three years.

“I can’t express how incredible it has been to receive such support. This scholarship has meant that I do not have to work as much to cover my living expenses, so I can use my time to study or do things to progress my career instead.”
ACCESS MELBOURNE

Access Melbourne is the University of Melbourne’s equity program for domestic students.

It can help you gain a place in the Bachelor of Agriculture, or one of our other undergraduate degrees, even if your ATAR is below the selection rank normally required for an offer (subject to course prerequisites). You may also be eligible for guaranteed entry or an Access Scholarship.

We also have scholarships and grants that can ease the financial load, and a housing program to get you securely settled close to campus.

In 2018, 30 per cent of our domestic undergraduate students were eligible for Access Melbourne, and demonstrated that, because of personal circumstances, their ATAR was not fully reflective of their real potential.

ACCESS SCHOLARSHIPS

Approximately 200 Access Melbourne students every year also receive an allowance of $5000 per year (paid in half-yearly instalments) for the normal, full-time duration of the course, and every Indigenous student who enrolls in Semester 1 2019 is guaranteed one of these scholarships.

We also offer a tuition waiver of up to $30 500 for 10 high-achieving Access Melbourne students per year. Plus, if you live in regional Victoria or interstate, the University will reserve a place in a residential facility close to our Parkville campus for the first year of your studies.

HOW TO APPLY

Lodge a Special Entry Access Scheme (SEAS) application via VTAC at vtac.edu.au for one or more of the following Access Melbourne categories:

- Disadvantaged financial background
- Applicants from rural or isolated areas
- Under-represented school
- Difficult circumstances
- Disability or medical condition
- Non-English speaking background
- Recognition as an Indigenous Australian
- Mature-age consideration (non-school leaver entry pathway).

access.unimelb.edu.au

PATHWAY TO AGRICULTURE: DIPLOMA IN GENERAL STUDIES

The Diploma in General Studies (DiGS) is a one-year pathway into a University of Melbourne undergraduate degree for domestic students. It combines subjects from the University’s bachelors degrees, enabling you to build the skills to achieve at university while living in a close-knit and supportive community at our Dookie agricultural campus.

If you are eligible for Access Melbourne at the time you apply for the diploma, you gain a guaranteed place in our Agriculture, Science, Commerce, Design or Biomedicine undergraduate degrees, provided you meet study score requirements and subject prerequisites. For Agriculture, a pass mark of 50 in all DiGS subjects is required.

Students who enter the Bachelor of Agriculture via DiGS do so with one year’s credit.

fvas.unimelb.edu.au/digs
YOUR CAREER

With important input from industry experts and potential employers, our curriculum focuses on developing graduate agricultural scientists who are work-ready from day one.

Our graduates find work all along the value chain of agriculture and its supporting industries and agencies:

- Research that improves outputs and sustainability
- Farm inputs like seeds and fertilisers
- On-farm advising
- Production of food and fibre
- Post-farm processing and marketing
- Government and industry policy.

For examples of companies and organisations where our graduates have gained employment, see Your Alumni, page 11.

AGRICULTURAL AND RESOURCE ECONOMICS

Economic analysis is vital to the profitability and success of agricultural businesses. The industry relies on economic modelling, business planning and other skills developed in the Agricultural Economics major. Professionals in these areas help individual producers and businesses maintain profits and adapt to changing environmental and business climates. Professionals in this area combine agricultural science and economic knowledge to deliver tailored solutions to challenging issues. Roles include:

- Farm management consultant: advise farmers on business decision-making based on your analysis of costs, margins and commodity prices
- Commodity trader: analyse market conditions and commodity sales and buying strategies
- Rural finance officer: determine the viability of businesses applying for loans and advise on financial planning
- Sales and marketing manager: analyse the viability of new markets or products, build relationships and develop marketing strategies
- Soil scientist: contribute to research, more efficient water use or advanced fertiliser development
- Orchard manager: develop budgets, work with marketers, supervise field teams and oversee the production line to deliver fresh fruit to market.

ANIMAL PRODUCTION

Animal production relies on skills in and knowledge of animal physiology, growth and nutrition, health and disease, welfare science and behaviour. Students who complete the major in Production Animal Science can consider a range of interesting careers that may include:

- Animal nutritionist: improve livestock growth and productivity
- Animal health or welfare officer: help to enforce the law and educate the public
- Quarantine officer: maintain biosecurity, keeping Australia and other countries disease-free
- Pharmaceutical company representative: inform producers of the latest medical advancements and how and when to use them
- Feedlot manager: combine the above skills to run an efficient, profitable and ethical operation.

PLANTS AND SOIL

Agronomy is the science of producing and using plants for food, fuel, fibre and land reclamation. The major most closely aligned with this field is Plant and Soil Science. Work is available in the areas of plant genetics, plant physiology, meteorology and soil science. Roles include:

- Agronomist: advise producers on maximising the usefulness of their land
- Catchment manager or environmental advisor: improve sustainability and environmental health

RESEARCH AND POLICY

Agriculture is a fundamentally scientific and increasingly knowledge-based industry. The industry interacts closely with all levels of government, and government policies influence the sustainability of agriculture. Meanwhile, there is a demand for a highly skilled researchers in government, universities and the private sector. These types of roles include:

- Agricultural researcher: follow your agriculture degree with a career adding to the sum of scientific knowledge, starting with an honours or masters research project
- Government policy adviser: apply your understanding of agriculture to help government balance programs, regulations and priorities
- Extension officer: explain the latest scientific research to individual farmers and businesses, and help them to find technical solutions to issues
- International development officer or financial aid adviser working in the private sector.
YOUR NEXT STEPS

Graduate study is an investment in your future. Choose Melbourne, and join the best and brightest students to pursue your passion and develop your career.

HONOURS
Honours is an optional fourth year of study where you’ll draw together your previous studies and focus your knowledge, skills and intellect on original research. Honours can further prepare you for employment, or for a research higher degree.

GRADUATE STUDY
We believe that personal satisfaction and career success are inextricably linked. That’s why we encourage you to pursue your passion and become a master of your chosen field through specialist graduate study following your undergraduate degree.

In the competitive global employment market, a graduate qualification sets you apart as someone who is looking to advance and lead, who has the skills and knowledge to succeed. Through graduate study you will learn how to be a leader in your field, and open up a wide range of career opportunities and earning potential.

“The Bachelor of Agriculture gives me so many more opportunities in the future once I am a vet or if I decide to go on a different pathway. It’s not even something to fall back onto – it’s such a big industry at the moment and one of the fastest-growing industries. Everyone needs food and fibre, and I’m hoping I’ll be able to combine my agricultural and vet knowledge at the other end of my studies.”

Wendy Parish (Australia)
Bachelor of Agriculture, Doctor of Veterinary Medicine
SPOTLIGHT ON AGRICULTURAL SCIENCES

GRADUATE DEGREES

Master of Agricultural Sciences
This graduate degree allows you to specialise in agribusiness, animal science, crop production or food security and develop further in-depth knowledge to advance your career.

Master of Agribusiness
Aside from three one-week intensives, this degree is online, allowing you to gain a further qualification while working away from the city.

Master of Food Science
The Master of Food Science combines food chemistry, safety, processing and quality with research and professional training to allow you to develop delicious, safe food for domestic markets or export.

DOCTOR OF VETERINARY MEDICINE PATHWAY

If you wish to progress into the Doctor of Veterinary Medicine (DVM) from the University of Melbourne’s Bachelor of Agriculture you must complete the Production Animal Science major. If you successfully complete the Bachelor of Agriculture, including all subjects in the Production Animal Science major, you’ll be eligible to apply for entry into the DVM.

Selection is on the basis of academic merit, based on results from the last two years of tertiary study.

GUARANTEED ENTRY

Pathways based on your secondary school and university performance
In addition to making you an undergraduate course offer, the University can also guarantee you a place in the graduate course of your choice, so you’ll have the added security of knowing a place is reserved for you. If you complete secondary school in Australia, guaranteed entry is available for most graduate degrees, depending on the ATAR/notional ATAR you achieve.

Pathways based on university performance only
Guaranteed pathways to graduate study are available to all students who complete their undergraduate degree at the University of Melbourne. Eligibility is based on your performance in your undergraduate degree, and completion of prerequisite subjects (if any).

MORE GRADUATE OPTIONS

Bachelor of Agriculture graduates may also pursue further study through:

• Master of Biotechnology
• Master of Economics
• Master of Environmental Science
• Master of Forest Ecosystem Science
• Master of Public Health
• Master of Public Policy and Management
• Master of Science (BioSciences)
• Master of Urban Horticulture

See the page opposite for some popular career pathways from Agriculture. The University also offers a range of other graduate degrees outside the agricultural sciences field. For a full list of our graduate degrees and entry requirements visit: coursesearch.unimelb.edu.au

GUARANTEED ENTRY

ATAR OF 99.90+
A guaranteed place in the graduate degree of your choice, subject to meeting the prerequisites. The guarantee applies to our professional entry masters degrees, including the University’s flagship graduate degrees such as the Juris Doctor (Law), Doctor of Medicine, Master of Engineering® and Master of Architecture.

No minimum grade is required in your undergraduate degree.
You may also be eligible for the Melbourne Chancellor’s Scholarship for your undergraduate degree.

ATAR OF 94.00–99.85
You may be eligible for a range of other guarantees, including for the Master of Teaching, Master of International Relations and Master of Food Science. To see all your options, go to: futurestudents.unimelb.edu.au/guaranteed-entry

The guaranteed entry pathways above are available to domestic and international students who complete an Australian Year 12 or the International Baccalaureate (IB) in Australia in 2018. Eligible students must enrol in a University of Melbourne undergraduate degree immediately following Year 12, or be granted a deferment by the University.

Domestic students applying for the Master of Engineering, Information Systems or Information Technology who complete a University bachelor’s degree and meet course entry requirements with a weighted average mark of at least 65% are guaranteed a CSP regardless of their ATAR.

Some exclusions apply. For the list of applicable courses, see: futurestudents.unimelb.edu.au/guaranteed-entry

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A professional graduate degree can be a life-changing option, equipping you with specialised cognitive and technical skills – and an internationally recognised qualification.

Flexibility and choice are at the heart of our academic program. We’ve provided you with some examples of popular pathways here, but these are just a small sample of the hundreds of undergraduate and graduate study combinations you can follow. Which means you can ensure your pathway will set you up to be the specialist that employers need.

To view our full suite of graduate courses, visit: coursesearch.unimelb.edu.au/grad

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**Entry requirements**

- An undergraduate degree in any discipline, or equivalent, or a minimum of six years’ documented relevant professional work experience.
- In ranking applications, the Selection Committee will consider prior academic performance, and, if relevant, professional experience.
- Successful applicants whose undergraduate degree is in a cognate discipline (such as agriculture) may receive up to one semester credit towards the masters.

fvas.unimelb.edu.au/magsci

The Diploma in General Studies is a pathway into the Bachelor of Agriculture and a number of other undergraduate degrees at Melbourne. Students who enter Agriculture via the diploma the diploma enter their course with a year’s credit.

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**Entry requirements**

- Students aspiring to graduate research can complete either an honours year or a masters degree with a substantial research component equivalent to at least 25 per cent of one year’s full-time study following their undergraduate degree.
- In the Faculty of Veterinary and Agricultural Sciences, the minimum entry standard is H2A (75%), or equivalent.

futurestudents.unimelb.edu.au/info/research

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**Entry requirements**

- An undergraduate agriculture, biomedicine or science degree, including at least one semester of study in both general/cellular biology and biochemistry.
- A personal statement including details of relevant work experience (up to 500 words).
- See page opposite for some popular career pathways from Agriculture. For a full list of our graduate degrees visit: coursesearch.unimelb.edu.au/grad

fvas.unimelb.edu.au/dvm

Duration depends on your undergraduate degree. An accelerated pathway (three years of study followed by three years of graduate study) is available for graduates of the University of Melbourne Bachelor of Science (Animal Health and Disease major – Veterinary Bioscience). See website for further details.

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Did you know that, on average, Australians with a graduate degree earn $26,000 more than those with a bachelors degree? And many employers prefer to promote those with a postgraduate qualification.

The University of Melbourne offers a true graduate school experience, with over 400 courses to choose from including law, engineering, medicine, architecture, psychology and teaching – just to name a few!

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PATHWAYS TO PROFESSIONAL CAREERS

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AGRICULTURAL SCIENCE

- **DIPLOMA IN GENERAL STUDIES**
  - 1 year
- **UNDERGRADUATE DEGREE**
  - Bachelor of Agriculture
  - 2 years
- **GRADUATE DEGREE**
  - Master of Agricultural Sciences
  - 1.5–2 years

YOUR CAREER

Agricultural consultant

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RESEARCH

- **UNDERGRADUATE DEGREE**
  - Bachelor of Agriculture
  - 3 years
- **HONOURS**
  - 1 year
- **GRADUATE DEGREE**
  - Master of Philosophy
  - 1.5–2 years
  - Doctor of Philosophy
  - 3–4 years

YOUR CAREER

Researcher

---

VETERINARY MEDICINE

- **UNDERGRADUATE DEGREE**
  - Bachelor of Agriculture, Biomedicine or Science
  - 3 years
- **GRADUATE DEGREE**
  - Doctor of Veterinary Medicine
  - 3–4 years

YOUR CAREER

Veterinarian

---

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To view our full suite of graduate courses, visit: coursesearch.unimelb.edu.au/grad

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Postgraduate Destinations 2015, Graduate Careers Australia.
HOW TO APPLY

Domestic students
Domestic students applying for an undergraduate course must submit an application through the Victorian Tertiary Admissions Centre (VTAC). Domestic students studying overseas must also apply through VTAC.

If you are applying via Access Melbourne, you must lodge a Special Entry Access Scheme (SEAS) application via VTAC.

vtac.edu.au

International students
International students studying the VCE, an Australian Year 12 or IB in Australia must apply through VTAC.

All other international students, including those undertaking foundation studies in Australia, must apply directly to the University or through one of our overseas representatives.

NON-SCHOOL LEAVER ENTRY PATHWAY
As a non-school leaver, you may not have a recent study history and therefore may not meet the standard entry requirements for the course of your choice. The non-school leaver entry pathway provides mature-age applicants and those who are not entering direct from Year 12 an alternative way to demonstrate their eligibility for entry and their likelihood to succeed in their chosen course.

access.unimelb.edu.au/nsl

FEES

Domestic students
All domestic undergraduate students are enrolled in a Commonwealth Supported Place (CSP), subsidised by the Australian Government. Payment of the student contribution amount can be deferred through HECS-HELP for eligible students.

International students
Tuition fees are charged for each year that you are enrolled. You will pay tuition fees according to your specific enrolment in any given semester. Detailed fee information, including the fee policy covering your enrolment, will be provided when you are offered a place at the University.

“As this was the first time I had left the comforts of my home to live in an unknown place alone, I was naturally worried in the beginning. Luckily, I met a group of friends and University staff members who were friendly and helpful, and they assisted me a lot in my transition.”

Chowlen Lim (Malaysia)
Bachelor of Agriculture
ENTRY REQUIREMENTS

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Bachelor of Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian Year 12</td>
<td></td>
</tr>
<tr>
<td>Domestic students: 2019 minimum ATAR</td>
<td>70.00</td>
</tr>
<tr>
<td>Domestic students: 2018 lowest selection rank to which an offer was made</td>
<td>70.60</td>
</tr>
<tr>
<td>International students: 2019 guaranteed ATAR</td>
<td>70.00</td>
</tr>
<tr>
<td>VCE (Units 3 and 4)</td>
<td>A study score of at least 25 in English/English Language/Literature or at least 30 in EAL, and at least 25 in Mathematical Methods or Specialist Mathematics or a study score of at least 30 in Further Mathematics</td>
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<table>
<thead>
<tr>
<th>Qualification</th>
<th>Bachelor of Agriculture</th>
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</thead>
<tbody>
<tr>
<td>International Baccalaureate (IB) Diploma</td>
<td></td>
</tr>
<tr>
<td>International students: 2019 guaranteed IB score</td>
<td>25</td>
</tr>
<tr>
<td>IB prerequisite subjects</td>
<td>English and one of Grade 5 in Mathematical Studies (SL) or Grade 4 in Mathematics or Further Mathematics</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Qualification</th>
<th>Bachelor of Agriculture</th>
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<tbody>
<tr>
<td>GCE A Levels/Singapore A Levels</td>
<td></td>
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<tr>
<td>International students: 2019 guaranteed score</td>
<td>CDD</td>
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<tr>
<td>A Level prerequisite subjects</td>
<td>A grade of at least C in Mathematics or Further Mathematics and in an accepted AS Level English subject</td>
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<tr>
<th>Qualification</th>
<th>Bachelor of Agriculture</th>
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<tbody>
<tr>
<td>Trinity College Foundation Studies</td>
<td></td>
</tr>
<tr>
<td>International students: 2019 guaranteed score</td>
<td>75</td>
</tr>
<tr>
<td>TCFS prerequisite subjects</td>
<td>EAP, English and Mathematics 1</td>
</tr>
</tbody>
</table>

* Domestic students: Applicants who achieve the minimum ATAR for a course will be eligible for a place, provided prerequisite studies and any other specific course requirements are met. The lowest selection rank to which an offer was made may be higher, depending on demand for the course and the number of places available. Only applicants eligible for special entry schemes will be admitted below the minimum ATAR.

* International students: The University guarantees admission to a course when an international student achieves the required score, meets prerequisite studies, satisfies the English language requirements and there are still places available in the course at the time of acceptance. If you do not meet the guaranteed score your application will not be considered for entry. Guaranteed scores apply only if no further study has been undertaken after completion of one of these programs. Domestic students completing an international qualification. The score listed should be considered a minimum score to be eligible for a place in that course. The actual standard required may be higher depending on the demand for the course and the number of Commonwealth Supported Places (CSP) available.
If you are considering studying agricultural science and want to learn more while making connections with inspiring teachers and other students, then the Pre-Ag Club is for you.

The Pre-Ag Club is open to anyone in Years 9–12 from Australia and overseas.

WHY JOIN?
As a member of the Pre-Ag Club you will have the opportunity to:

- Attend special lectures and practical sessions delivered by the University
- Meet our leading academics, researchers and current students
- Connect with students who share your interest
- Discover the benefits of a degree and career in agricultural sciences
- Learn how you can make a difference on a global and national scale with a Bachelor of Agriculture degree.

Register now:
fvas.unimelb.edu.au/study/pre-ag-club

UNIVERSITY OF MELBOURNE EXTENSION PROGRAM

The Extension Program is designed for high-achieving Year 12 students who are looking for an academic challenge. Rewarding students with an ATAR contribution, the program allows you to complete university studies alongside your final year of high school. As a student with an interest in agriculture, you may wish to apply to study the following subjects:

Semester 1:
BIOL10004 Biology of Cells and Organisms

Semester 2:
BIOL10005 Genetics and the Evolution of Life

Students who successfully complete these subjects as part of the Extension Program and subsequently enrol in the Bachelor of Agriculture may be granted credit in first year.

futurestudents.unimelb.edu.au/info/school-students/extension-program

THE CONOCOPHILLIPS AGRICULTURAL SCIENCE EXPERIENCE

This three-day camp gives you a taste of university life and what agricultural science is all about. Join agricultural scientists and university students in hands-on workshops and activities in laboratories and on the farm, learning about animal health, farming, food and agricultural business. Experience how they solve challenges in the real world through finding better and safer ways to grow plants and animals for both farmers and the rest of the population.

scienceexperience.com.au/when-where/victoria

This program is under review by the Victorian Curriculum and Assessment Authority.
“While I have been studying an Agricultural Economics major, I have incorporated animal physiology and environmental subjects into my course. I believe that to be employable within the industry, you need to have some background knowledge about a wide range of topics.”

Tiffany Miller (Australia)
Bachelor of Agriculture
If you're considering studies at the University of Melbourne, we’d love to hear from you online or meet you on campus.

Sign up at: futurestudents.unimelb.edu.au/connect

OPEN DAY
Sunday 19 August 2018
10am–4pm
Parkville and Southbank campuses
openday.unimelb.edu.au

DOOKIE DAY
Sunday 9 September 2018
10am–4pm
Dookie campus
fvas.unimelb.edu.au/dookie-day