A collision of plant and soil science, production animal science and agricultural economics.
“You can learn only so much in the classroom. Being out in the field and applying the theory is a whole new learning curve – you learn so much quicker.”

Natalie Eckert,
Bachelor of Agriculture
(Production Animal Health major)
Agriculture at Melbourne

Become a highly skilled agricultural specialist, ready to take on the world.

Agriculture is a major contributor to the Australian economy and productivity is booming – more than in any other industry sector.

To develop the new Bachelor of Agriculture, the University of Melbourne consulted widely with industry, employers and graduates. This degree empowers you with the general, technical and problem-solving skills required to meet the high demand for graduates in agriculture.

— About the Bachelor of Agriculture

Our Bachelor of Agriculture enables you to develop the skills and knowledge to apply science to significant real-world issues.

As an agriculture student, you will develop breadth and depth of knowledge as well as core practical skills across plant and soil science, animal science and agricultural economics.

You will also examine key aspects of agricultural production from scientific, economic, environmental and ethical points of view. You’ll work in cross-disciplinary teams to apply the knowledge to solve major industry challenges – from improving animal production and welfare to addressing climate change and food sustainability.

In the first year of the course you’ll gain a solid foundation in agricultural science, with core studies in biology, natural environments, agricultural production and agricultural science.

In second and third year you’ll have the opportunity to pursue your interests by selecting a major in plant and soil science, production animal science or agricultural economics.

— Majors

— Plant and Soil Science
— Production Animal Science
— Agricultural Economics

— Honours

Honours is an optional fourth year of study that gives you the opportunity to draw together your previous studies and focus your knowledge, skills and intellect on an exciting piece of original research. Honours can further prepare you for employment, or a research higher degree.

— Course structure

You’ll complete 300 credit points of study in total (equivalent to three years of full-time study). Most subjects are equal to 12.5 credit points.

— Bachelor of Agriculture

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

Campus
Parkville
Dookie (optional practical semester)

Entry
Semester 1 (February)

Contact hours
(first year, full time)
Approximately 16–22 hours per week, plus independent study time of approximately 20 hours a week

— Find out more

facebook.com/FVASunimelb
twitter.com/FVASunimelb
youtube.com/FVASunimelb
Instagram.com/FVASunimelb

— Majors

— Plant and Soil Science
— Production Animal Science
— Agricultural Economics

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$465,000 in scholarships available in 2017
PLANT AND SOIL SCIENCE

This major provides graduates with a depth and breadth of understanding in plant and soil science in the context of agricultural production systems. You will study subjects in soil biology and management, and plant health for growth and production, and gain a detailed understanding of the drivers of plant industries and how management strategies can optimise yield and product quality.

Sample course plan – Bachelor of Agriculture®
Major in Plant and Soil Science®

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Agricultural Production Systems 1</th>
<th>Agricultural Production Systems 2</th>
<th>Biology of Cells and Organisms</th>
<th>Natural Environments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Semester 2</td>
<td>Foundations of Agricultural Science 1</td>
<td>Foundations of Agricultural Science 2</td>
<td>Agricultural Production Systems 3</td>
<td>Genetics and the Evolution of Life</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
<td>Agricultural Economics</td>
<td>Biochemistry in Agricultural Systems</td>
<td>Microbiology in Agriculture</td>
<td>Animal Physiology and Growth</td>
</tr>
<tr>
<td></td>
<td>Semester 2 (Parkville campus)</td>
<td>Principles of Soil Science</td>
<td>Crop Production and Management</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>Applied Industry Studies</td>
<td>Plant Health and Improvement</td>
<td>Agronomy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Soil Management</td>
<td>Irrigation and Water Management</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

- Compulsory subjects
- Major subjects
- Elective Agriculture subjects that lead to or complement the major

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.

Subject to Academic Board approval.
PRODUCTION ANIMAL SCIENCE

This major will provide graduates with a depth and breadth of understanding in production animal science in the context of agricultural systems. You will study subjects in animal biology, nutrition and physiology, health and welfare. Graduates of this major will also gain a detailed understanding of animal production industries, and how management strategies can optimise growth and product quality.

Students who study the Production Animal Science major and gain entry into the Doctor of Veterinary Medicine program will receive subject credit of 37.5 points towards their first year of studies.

For more information go to Further Study on page 7.

Sample course plan – Bachelor of Agriculture

<table>
<thead>
<tr>
<th>Year 1</th>
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<th>Agricultural Production Systems 1</th>
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<td>Biochemistry in Agricultural Systems</td>
<td>Microbiology in Agriculture</td>
<td>Animal Physiology and Growth</td>
</tr>
<tr>
<td></td>
<td>Semester 2 (Parkville campus)</td>
<td>Principles of Soil Science</td>
<td>Ecology and Grazing Management</td>
<td>Comparative Nutrition and Digestion</td>
<td>Elective</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>Applied Industry Studies</td>
<td>Applied Reproduction and Genetics</td>
<td>Production Animal Health 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Production Animal Health 2</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

- Compulsory subjects
- Major subjects
- Elective Agriculture subjects that lead to or complement the major

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.

Subject to Academic Board approval.
AGRICULTURAL ECONOMICS

This major will provide graduates with a depth and breadth of understanding of economics in the context of agricultural production systems. You will study subjects in economics, resource and farm management, and value chain analysis. Graduates of this major will be well equipped to analyse agricultural systems from an economic perspective, and provide advice on management decision-making in this context.

Sample course plan – Bachelor of Agriculture®
Major in Agricultural Economics®

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Agricultural Production Systems 1</th>
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</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
<td>Agricultural Economics</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Principles of Soil Science</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>Applied Industry Studies</td>
<td>Farm Management Economics</td>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Value Chains and Trade</td>
<td>Agricultural Systems Analysis</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

Compulsory subjects | Major subjects | Elective Agriculture subjects that lead to or complement the major

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.

Subject to Academic Board approval.
FURTHER STUDY

In an increasingly competitive global employment market, graduate study can give you an edge with a professional qualification at a masters or doctorate level. Our graduate professional entry programs offer intensive, focused study and professional knowledge – preparing you for the career of your choice.

The Bachelor of Agriculture is a pathway to masters degrees in agribusiness, agricultural sciences, environmental science, business and economics.

Research pathways include an honours degree, the Master of Agricultural Sciences or a research higher degree. Studies in areas such as architecture, engineering, information technology, law, psychology and teaching are also available.

— Graduate programs

Agricultural Sciences
— Master of Agribusiness
— Master of Agricultural Sciences
— Graduate Diploma in Agricultural Sciences
— Graduate Certificate in Agricultural Sciences

Food Sciences
— Master of Food Science
— Graduate Diploma in Food Science
— Graduate Certificate in Food Science
— Master of Food and Packaging Innovation

Veterinary Science
— Doctor of Veterinary Medicine
— Master of Veterinary Studies

— Research programs

— Master of Philosophy (Agriculture)
— Doctor of Philosophy (Agriculture)

For further information visit: fvas.unimelb.edu.au/study/courses

“I chose this course because it interested me, and because the employment opportunities upon graduation are excellent.”

Lucy Collins,
Doctor of Veterinary Medicine

— Doctor of Veterinary Medicine

Pathway via Bachelor of Agriculture at the University of Melbourne

Students wishing to progress into the Doctor of Veterinary Medicine (DVM) from the University of Melbourne’s Bachelor of Agriculture must complete the Production Animal Science major. Students having successfully completed the Bachelor of Agriculture, including all subjects in the Production Animal Science major, are 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.

Students who study the Production Animal Science major and gain entry into the DVM will receive subject credit of 37.5 points towards their first year of studies.

SCHOLARSHIPS

Scholarships provide opportunities and recognise hard work and achievement. They also benefit the community by supporting the talented veterinary science and agricultural professionals of the future.

There is a range of scholarships for prospective and current students.

fvas.unimelb.edu.au/scholarships

— University-wide scholarships for current and prospective students

If you are eligible for one or more of the Access Melbourne categories (see page 10), you may qualify for a Melbourne Access Scholarship which provides an allowance of $15 000.

services.unimelb.edu.au/scholarships
PRE-AG CLUB

If you are in secondary school considering studying agricultural science and want to learn more and start making connections now, then the Pre-Ag Club is for you.

— Why join?
As a member of the Pre-Ag Club you will have the opportunity to:
— Explore the agricultural sciences as a study option and the exciting career opportunities available in the world of animals, food and plants
— Attend University-run customised lectures and practical sessions
— Meet our leading academics, researchers and current students
— Connect with students who share your interests
— Discover the benefits of a degree and career in agricultural sciences
— Learn how you can make a difference to local and global challenges with a Bachelor of Agriculture degree.

— Who can join?
Year 9–12 students from any Australian high school

— Register now
fvas.unimelb.edu.au/study/pre-ag-club
CAREER OUTCOMES

— Be job-ready and in demand

With important input from industry experts and potential employers, our new curriculum focuses on developing graduate agricultural scientists who are job-ready from day one. Our agricultural graduates are in high demand, with three jobs for every agriculture graduate in the sector.1

Around 90 per cent of graduates gain full-time employment within four months of graduation – significantly above the average of 71 per cent for all bachelor degree graduates in Australia. A high percentage of positions are available in cities as well as rural and remote areas.

For further information visit: acda.edu.au

Career opportunities for agricultural specialists exist in a range of areas including:

— Animal production

Consider a range of interesting careers relating to animal production such as:

— Agricultural/farm consultant
— Animal health/welfare officer
— Animal husbandry
— Animal nutritionist
— Artificial breeding technician
— Feedlot manager
— Pharmaceutical sales
— Quality assurance
— Quarantine officer/biosecurity officer.

Career spotlight: Animal health officer

You will have the important role of enforcing the law and educating the public on the prevention of cruelty to animals. You will investigate complaints, rescue animals from harmful situations, care for them and re-home them.

— Agronomy

Agronomy is the science of producing and using plants for food, fuel, fibre, and land reclamation. It includes work in the areas of plant genetics, plant physiology, meteorology, and soil science.

Career spotlight: Agronomist

An agronomist applies their scientific and technical knowledge to help farmers to increase crop yield and maximise profits.

You may gain specialist positions in research, consultation, sales, crop nutrition, soils or farming sustainability.

Career spotlight: Soil scientist

As a soil scientist you will examine the biology, chemistry, physics and hydrology of soil systems and conduct relevant research in order to advise on the best strategies for their effective conservation and management. You may work in a lab, an office or out in the field (or a combination of these), alone and in teams (and work closely with farmers and their staff).

— Finance and consultancy

The financial stability and direction of agricultural businesses is a vital ingredient to success. You may work as an agribusiness consultant, farm adviser or a rural finance officer/manager.
— 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.

vtac.edu.au

Non-school leaver entry pathway
All applicants to the University must demonstrate academic merit and meet other requirements as part of the application process. 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.

futurestudents.unimelb.edu.au/admissions

International students
International students studying Year 12 or IB in Australia must apply through VTAC for Semester 1 entry. All other international students, including those undertaking foundation studies in Australia, must apply directly to the University or through one of our overseas representatives.

futurestudents.unimelb.edu.au/admissions/applications

— Diploma in General Studies
If you want a year to decide what to do next, and you want it to count, choose the Diploma in General Studies. Completion of the Diploma in General Studies may give you guaranteed entry into degree courses at the University of Melbourne and improve your employment prospects. The Diploma in General Studies is a sampler of the Melbourne bachelors degrees, and provides you with the opportunity to study science, biomedicine, commerce, design or agriculture. This course is available to domestic students only.

fvas.unimelb.edu.au/digs

— 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.

futurestudents.unimelb.edu.au/admissions/fees

— Scholarships

Melbourne Scholarships
Melbourne Scholarships recognise outstanding academic achievement and provide access to higher education to students who might otherwise be excluded by socioeconomic, cultural, geographic and other disadvantages. Visit our website for the most up-to-date information on scholarships, including closing dates:

futurestudents.unimelb.edu.au/admissions/scholarships

— Access Melbourne

If you are a domestic student, you can enhance your opportunity for selection by applying for Access Melbourne, the University’s special entry scheme. Access Melbourne can help you gain a place in a course, even if your ATAR is below the Clearly-in Rank, by letting you explain the ongoing circumstances that have affected your education. Scholarships are also available.

access.unimelb.edu.au

How to apply
Applications are made using the Special Entry Access Scheme (SEAS) application on the VTAC website.

vtac.edu.au/who/seas
## ENTRY REQUIREMENTS

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Bachelor of Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Australian Year 12</strong></td>
<td></td>
</tr>
<tr>
<td>Domestic students: 2017 Minimum ATAR</td>
<td>70.00</td>
</tr>
<tr>
<td>Domestic students: 2016 Clearly-in Rank</td>
<td>70.15</td>
</tr>
<tr>
<td>International students: 2017 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 (CAS) or Specialist Mathematics or a study score of at least 30 in Further Mathematics</td>
</tr>
<tr>
<td><strong>International Baccalaureate (IB) Diploma</strong></td>
<td></td>
</tr>
<tr>
<td>International students: 2017 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>
<tr>
<td><strong>GCE A Levels/Singapore A Levels</strong></td>
<td></td>
</tr>
<tr>
<td>International students: 2017 Guaranteed score</td>
<td>CDD</td>
</tr>
<tr>
<td>A Level prerequisite subjects</td>
<td>Mathematics and at least Grade C in an accepted AS Level English subject</td>
</tr>
<tr>
<td><strong>Trinity College Foundation Studies</strong></td>
<td></td>
</tr>
<tr>
<td>International students: 2017 Guaranteed score</td>
<td>75</td>
</tr>
<tr>
<td>TCFS prerequisite subjects</td>
<td>EAP (a score of at least 50%), English and Mathematics 1</td>
</tr>
</tbody>
</table>

1. 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 Clearly-in Rank 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.

2. 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.

The actual standard required may be higher depending on the demand for the course and the number of Commonwealth Supported Places (CSPs) available.

“The University of Melbourne has a wide range of scholarships on offer for agriculture students. I’d definitely recommend anyone who’s thinking about Agriculture to look at what’s available.”

“This is my first year living in Melbourne. It’s been good to have the scholarship to ease the transition between country living and living in the city. I already feel like the financial pressure has been eased, allowing me to concentrate on my studies.”

Sam Neilsen, Bachelor of Agriculture and William Buckland Foundation Residential Scholarship recipient