

CAREERS FOR CHANGE  
Agriculture  
and Horticulture



**Lincoln University**

*Te Whare Wānaka o Aoraki*

AOTEAROA • NEW ZEALAND

New Zealand's specialist  
land-based university



BE PART OF THE GENERATION THAT  
WILL MAKE A CHANGE



[WWW.LUGENERATION.CO.NZ](http://WWW.LUGENERATION.CO.NZ)

# OUR MISSION



**The University has a mission to help:  
feed the world, protect the future,  
and live well.**

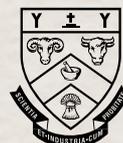
It is predicted that by 2050 the world's population will reach 9.2 billion people: this will create challenges that need solutions.

As the population grows, food supply and production will become key. So will sustaining the environment for future generations. As these two, potentially conflicting, concepts become increasingly pressing we will also want to be living well on our planet.

Lincoln University is a uniquely and deliberately specialised university finding solutions for these challenges.

To achieve our mission, Lincoln is positioned to work alongside industry, the community, and people from around the globe. The University's qualifications range from certificate level through to PhD – and our teaching and research covers all activity associated with the land-based sectors to meet the needs of not only New Zealand but also the world.

Lincoln students come from all over New Zealand and from more than 60 countries around the world. Once studies are completed, Lincoln graduates can be found around the globe making a difference.



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# KIA ORA AND WELCOME



Whether you're looking at doing tertiary study for the first time, or adding to your educational achievements, you know the importance of selecting the right course of study and the right tertiary institution to carry out that study – the first step towards a future filled with opportunities.

Focusing on what you enjoy as well as your strengths is a good place to start to make the right decision for you. Think about what really interests you and why it interests you. What do you like about certain activities or environments? What skills do you already have or want to learn and use? What job would suit your personality? Are there a number of courses which match your preferences and skill set?

Once you've thought about what you might like to do, talking with friends and family who know you well is a good way to get perspective and narrow down the choices. Follow up by talking to a career advisor who can give you more information about various qualifications and how to achieve your career goals. Talking to people who have studied the subject you are interested in, or who are working in the field or job you are thinking about, can be really helpful and give you a realistic picture of what it will be like. It makes sense to decide what sort of job and lifestyle you want first, then work out what programme of study is best suited to make you employable in your chosen field.

Lincoln University offers a diverse range of programmes which prepares students for the demands of today's world. Course theory is underpinned by a practical focus which gives students valuable real world skills and experience. Our graduates move into the workplace with the knowledge and proficiency to be successful in a huge variety of careers all over New Zealand and the world.



# Lincoln campuses

Lincoln University has two South Island campuses: **Te Waihora** in Lincoln, Canterbury and **Telford** in Balclutha, Otago.

## » Te Waihora campus (Lincoln, Canterbury)

Situated on 58 hectares of green space, the University offers modern teaching on this beautiful, established campus. Facilities include a comprehensive library, IT labs, free car parking, large dining hall and function centre, café and bar, a printery, a travel agency, banking services and excellent sporting facilities.

With a student population of 3500, from over 60 different countries, Lincoln University is an easy place to make friends. On-campus accommodation is home to around 600 students during the University year, including catered halls of residence, self-catered residential halls and student housing. For those living off-campus, there are regular bus services to and from central Christchurch.

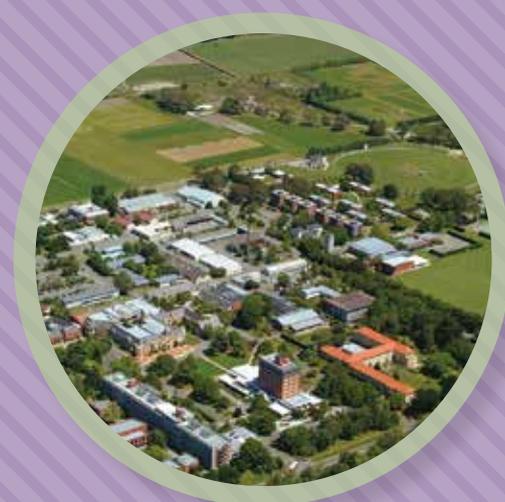
Find out more: [www.lincoln.ac.nz](http://www.lincoln.ac.nz)

## » Telford campus (Balclutha, Otago)

The Telford campus is our smaller campus and one of New Zealand's largest land-based vocational training providers. Located near Balclutha in South Otago, it is based on a 921-hectare commercial farm, offering real farming experience for live-in students. Telford offers practical training in agriculture, rural vet technician practices, dairying, stock and station, equine studies, forestry, horticulture, and apiculture (beekeeping).

Find out more: [www.telford.ac.nz](http://www.telford.ac.nz)

## NEW ZEALAND



# Why study agriculture and horticulture?

Lincoln University is ranked in the top 51-100 in the field of agriculture and forestry, by QS world university rankings.



Primary production is at the foundation of our national economy. Seventy percent of New Zealand's merchandise export revenue is from the primary sector – and that number is growing. Land-based sectors employ around 20% of the New Zealand workforce.

However, of the 22,500 graduates each year from the tertiary education system in New Zealand, only 300 have degrees in agriculture, horticulture and dedicated environmental management – that's just over 1%. This means demand for those graduates well exceeds supply. Feedback from the industry is overwhelming: "We need more graduates".

Study in agriculture and horticulture covers a wide range of disciplines including biology, chemistry, plant science, animal science and soil science, but can also incorporate management, economics and food science, enabling you to cultivate a rewarding career based on your strengths and areas of interest. Career opportunities are wide-ranging, from farm and horticultural consultancy, farm management and property management, through to rural banking and valuation, agribusiness, and the fertiliser, seed and livestock industries.

Studying at Lincoln University means you will be learning from some of the very best researchers and lecturers in this field and accessing the most up-to-date industry knowledge. We use real-world examples and practical experiences to equip our graduates with the knowledge, skills and values to immediately make a difference in jobs across all areas of agricultural and horticultural production and related industries. Students also develop transferrable skills during their qualification, including time management, and communication and IT skills, fundamental in any workplace.

This book explores undergraduate options in the fields of agriculture and horticulture, and some of the pathways that our graduates have taken to get them where they are today. It is designed to show you pathways and opportunities you can take, and assist you in making the right choice for your future. To see the full range of qualifications on offer, visit:

**[www.lincoln.ac.nz](http://www.lincoln.ac.nz)**

# What are your choices?

Depending on interests, time, and current qualifications, you can choose from the University's undergraduate certificate, diploma or degree programmes through to postgraduate level courses.



## Programmes on offer for agriculture and horticulture studies:

Agribusiness and Food Marketing			B				
Agriculture	C	D	B				
Agricultural Science			B	H	PG	M	PhD
Agritech			B				
Apiculture	C						
Commerce (Agriculture)			B	H	PG	M	PhD
Equine	C						
Farm Management		D					
Farming (Dairy)	C						
Forestry	C						
Horticultural Management		D					
Horticultural Science					PG	M	PhD
Horticulture		D					
Rural Veterinary Technician		D					
Viticulture and Oenology		D		H	PG		

*Note: Qualifications change from time to time, if you don't see the programme you are interested in please contact Student Liaison on 0800 10 60 10.*

### C Certificates

These are excellent entry qualifications for people who would like comprehensive introductory information, don't have University Entrance, or who are coming back to University and would like to prepare for further study.

### D Diplomas

These are one-year programmes that focus on particular areas of interest.

### B Bachelors' degrees

In most cases, the bachelor's degree allows you to follow the path you want, mixing optional subjects with papers that are core requirements.

Undergraduate qualifications usually commence in semester one (February), but it is often possible to start in semester two (July) depending on the qualification selected.

Lincoln University also offers a wide range of single or multi-disciplinary further study or research opportunities for those looking for highly respected postgraduate qualifications. Please view the Postgraduate prospectus or visit: [www.lincoln.ac.nz](http://www.lincoln.ac.nz)

### H Honours degrees

These offer the opportunity for those with high academic results to complete a fourth year of study on completion of their bachelor's degree.

### PG Postgraduate and graduate certificates and diplomas

These allow you to transfer from another area of study to gain skills in an area of interest, or build on the bachelor's degree or equivalent already gained.

### M Masters' degrees

These enable you to develop a thesis in a chosen area or undertake taught qualifications. They are the highest pre-doctorate qualification.

### PhD Doctor of Philosophy (PhD)

These are available in most of the disciplines in which the University offers postgraduate studies. This is a further three years' study and a thesis on top of a Master's or Honours degree.

# Best preparation for agriculture and horticulture studies

If you are still at school, we highly recommend you take subjects that are relevant to your chosen course of study to make the most of your time studying at Lincoln University.

The table below shows you the subjects you should consider at school if you are thinking of pursuing the qualifications listed. It is also a good way of finding out what you might want to study if you are interested in particular school subjects.

	ACCOUNTING	AGRICULTURE/ HORTICULTURE	ART/HISTORY/ CLASSICS	BIOLOGY	CHEMISTRY	COMPUTING	ECONOMICS	ENGLISH	GEOGRAPHY/ SOCIAL STUDIES	GRAPHICS/ DESIGN	MĀORI/TE REO	MATHS/ STATISTICS	P.E./OUTDOOR ED	PHYSICS	TOURISM
BACHELOR OF AGRIBUSINESS AND FOOD MARKETING															
BACHELOR OF AGRICULTURE															
BACHELOR OF AGRICULTURAL SCIENCE															
BACHELOR OF COMMERCE (AG)															
BSc – AGRITECH															
BACHELOR OF VITICULTURE AND OENOLOGY															
DIPLOMA IN AGRICULTURE															
DIPLOMA IN FARM MANAGEMENT															
DIPLOMA IN HORTICULTURE															
DIPLOMA IN HORTICULTURAL MANAGEMENT															
DIPLOMA FOR RURAL VETERINARY TECHNICIANS															
CERTIFICATE IN AGRICULTURE (LEVEL 3)															
CERTIFICATE IN APICULTURE (LEVEL 3)															
CERTIFICATE IN EQUINE (LEVEL 3 AND 4)															
CERTIFICATE IN FARMING (DAIRY) (LEVEL 3)															
CERTIFICATE IN FORESTRY (LEVEL 3)															

Recommended subjects.
  Useful subjects.

# Lincoln University and Climate Change



Agriculture and being 'green' can go together. The University's commitment to sustainability and climate change issues is apparent in our teaching and research, from cutting edge research around climate change, asking questions about adaptation and evolution in changing environments and a changing

climate, to mitigating the impact of agriculture on the planet.

So if the global challenges of how to feed the world, protect the future and live well mean something to you, or climate change is on your radar, then you have found the university for you.

## The details

Here is just a quick snapshot of our world-leading climate change research and educational initiatives, from detailed scientific studies on the mitigation of greenhouse gas emissions to alternative fuels and climate-resilient tourism.

1. Lincoln University is a partner in the NZ Agricultural Greenhouse Gas Research Centre (NZAGRC), a partnership between leading New Zealand research providers working in the agricultural greenhouse gas area. <http://www.nzagrc.org.nz/nitrous-oxide.html>
2. Lincoln University hosts the National Centre for Nitrous Oxide Measurement, part of the NZAGRC. The Centre can process more than 1000 nitrous oxide samples a day, making it one of the best specialist facilities of its type in the world.
3. Lincoln University contributes to the Global Research Alliance on Agricultural Greenhouse Gases which has 46 member countries. The Alliance focuses on research, development and extension of technologies and practices to grow more food (and more climate-resilient food systems) without growing greenhouse gas emissions. <http://globalresearchalliance.org/about/>
4. Lincoln University is involved in reducing greenhouse gas emissions on the farm by exploring the possibility of renewable fuel. The latest excitement is over Japanese grass *Miscanthus x giganteus*. <http://bioprotection.org.nz/news/can-farmers-help-address-climate-change>
5. Climate change has the potential to both increase New Zealand's attractiveness to tourists and undermine some of its core attractions. Lincoln University is involved in research projects around protecting and growing the tourism industry and developing adaptation strategies.
6. Lincoln University has established a nationwide Global Challenges Programme and Scholarships in response to challenges facing the planet today, including climate change, food production and security, depleting resources, urban sprawl, the loss of biodiversity, and pollution.
7. Lincoln University's academic staff are actively involved in teaching, researching and publication around climate change issues, as well as being involved on committees and boards dedicated to exploring climate change.
8. Lincoln University co-hosts the Waterways Centre (with the University of Canterbury) dedicated to improving New Zealand's waterways. Lincoln University undertakes extensive research on Banks Peninsula and elsewhere with respect to species conservation, and we host New Zealand's only Bio-Protection Research Centre.

To find out more, please talk to us.





# Our programmes

- 10 Bachelor of Agribusiness and Food Marketing
- 12 Bachelor of Agriculture
- 14 Bachelor of Agricultural Science
- 16 Bachelor of Commerce (Agriculture)
- 18 Bachelor of Science Agritech
- 20 Bachelor of Viticulture and Oenology
- 22 Diploma in Agriculture
- 24 Diploma in Farm Management
- 26 Diploma in Horticulture
- 28 Diploma in Horticultural Management
- 30 Diploma for Rural Veterinary Technicians
- 32 Certificate in Agriculture
- 34 Certificate in Apiculture
- 36 Certificate in Equine (Level 3)
- 38 Certificate in Equine (Level 4)
- 40 Certificate in Farming (Dairy)
- 42 Certificate in Forestry

Lincoln University's bachelor degrees include three LINC courses. These are common to all the degrees and give students a broad global understanding of issues impacting the future of the planet, as well as core learning skills necessary for University study.

## LINC 101

### **Land, People and Economies**

An introduction to the many perspectives involved in the use, management and stewardship of land, underpinned by the consideration of land as a resource, and the conflicts and tensions over land use and ownership. A range of topical issues are studied.

## LINC 102

### **Research and Analytical Skills**

An introduction to research, its role and function in the production and communication of knowledge. An introduction to critical thinking and the tools and techniques used in evidence-based decision-making and mathematics, statistics, and computing skills.

## LINC 201

### **Sustainable Futures**

An advanced discussion on sustainability issues in a global framework. This interdisciplinary course focuses on global sustainability with reference to social, environmental, cultural and economic aspects of sustainability.



# BACHELOR OF Agribusiness and Food Marketing

[www.lincoln.ac.nz/BAFM](http://www.lincoln.ac.nz/BAFM)



## DURATION:

3

Years

## TAUGHT AT:



**Te Waihora campus**  
(Lincoln, Canterbury)

## INTAKE:

Semester 1 Semester 2

1

2



Lincoln's Bachelor of Agribusiness and Food Marketing degree will equip students with a sound applied knowledge of core business concepts and the unique commercial considerations of the multi-billion dollar primary production industry.

A rapidly growing global population and the constraints of finite resources require a more savvy approach to the business of food production and food marketing. Likewise, the increasing sophistication and purchasing power of consumers throughout the world means an increasing demand for a diverse range of high quality products. Students will gain a contextual understanding of the global agribusiness and food marketing sectors to meet this demand.

## Entry requirements:

- University Entrance through NCEA, or an approved equivalent qualification.
- If English is not your first language other entry requirements will apply.

Refer to [www.lincoln.ac.nz](http://www.lincoln.ac.nz) for more information.

## Recommended preparation:

Having an interest and understanding of New Zealand's agribusiness and the food industry would be advantageous.

## Programme structure:

- Pass at least 360 credits (24 courses)
- Pass all compulsory courses
- Complete no more than 165 credits (11 courses) at 100-level
- Complete at least 75 credits (5 courses) at 300-level
- Complete all practical work requirements.

## Practical work:

18 weeks in total:

- Working in aspects of the food industry including production systems (horticultural and agricultural), adding value to primary products or marketing.

## Career outcomes:

Studying Agribusiness and Food Marketing at Lincoln University opens up a world of opportunities. Graduates are employable along the agrifood value chain in positions such as product sales, customer service, marketing and communications, new product innovation, logistics and supply chain management, business development, as well as quality and supply management.



**FACT**

**70%**  
OF NZ'S MERCHANDISE EXPORT  
REVENUE COMES FROM THE  
PRIMARY SECTOR

Agribusiness accounts for 70% of New Zealand exports and is the focus of our largest businesses such as Fonterra, Zespri, Silver Fern Farms and ANZCO Foods, as well as many smaller innovative food businesses. Food companies looking for Agribusiness and Food Marketing graduates include dairy, meat, wine, horticulture and cereals, as well as processed food and beverage companies.

## Programme content

Content can include topics such as:

- Land, People and Economies
- Research and Analytical Skills
- The Global Business Environment
- Transforming Data into Information
- Financial Information for Business
- Introduction to Commercial Law
- Food Quality and Consumer Acceptance
- Global Food Systems
- Sustainable Futures
- Processing Food for Consumers
- The Agribusiness Environment
- Logistics Management
- Food Product Innovation and Quality
- Agribusiness Strategic Management
- Integrated Agribusiness and Food Marketing Strategy
- Marketing Analytics and Research
- Marketing of New Zealand Products and Services
- Supply Chain Management.



## >> PROGRAMME CONTACTS



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# BACHELOR OF Agriculture

[www.lincoln.ac.nz/BAG](http://www.lincoln.ac.nz/BAG)



## DURATION:

3

Years

## TAUGHT AT:



**Te Waihora campus**  
(Lincoln, Canterbury)

## INTAKE:

Semester 1 Semester 2

1

2



Lincoln University's Bachelor of Agriculture uses real world examples and practical experiences to produce graduates who can immediately make a difference in jobs across all areas of agricultural production and related industries. New Zealand is a world leader in agriculture and it is not by chance that, for over 135 years, Lincoln University has been training world-leading agricultural specialists.

This degree is structured around courses in four key disciplines: plant science, animal science, soil science and farm management.

## Entry requirements:

- University Entrance through NCEA, or an approved equivalent qualification.
- If English is not your first language other entry requirements will apply.

Refer to [www.lincoln.ac.nz](http://www.lincoln.ac.nz) for more information.

## Recommended preparation:

Maths, English, Biology and Chemistry would be advantageous.

## Programme requirements:

- Pass at least 360 credits (24 courses)
- Pass all compulsory courses
- Complete no more than 165 credits (11 courses) at 100-level
- Complete at least 75 credits (5 courses) at 300-level
- Complete all practical work requirements.

## Practical work:

28 weeks in total:

- One dairy farm (minimum 10 weeks – maximum 14 weeks)
- One sheep/beef farm (minimum 10 weeks – maximum 14 weeks).

Any time remaining can be on a different type of farm or in an allied industry of your choice.



## AGRICULTURE

**\$19 billion pa**  
 AGRICULTURE (PASTURAL)  
 1/2 OF ALL NZ PRIMARY EXPORTS



### Career outcomes:

The career opportunities for a Bachelor of Agriculture graduate are wide, from primary sector through to consultancy, depending on your choice of courses and areas of interest. Some examples of previous graduate destinations include: soil consultants, farm managers, agronomists, researchers, and environmental advisors.

### Programme content

Content can include topics such as:

- Animal Science
- Land, People and Economies
- Research and Analytical Skills
- Primary Industry Systems
- Chemistry
- Plant Science
- Soil Science
- Livestock Production Science
- Sustainable Futures
- Principles of Farm Management
- Plant Production Systems
- Biometrics
- Soil Management.

### >> PROGRAMME CONTACTS



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# BACHELOR OF Agricultural Science

[www.lincoln.ac.nz/BAGSci](http://www.lincoln.ac.nz/BAGSci)

## DURATION:

4

Years

## TAUGHT AT:



**Te Waihora campus**  
(Lincoln, Canterbury)

## INTAKE:

Semester Semester

1

2



Agricultural production is critical to feeding the world's population. Lincoln University's Bachelor of Agricultural Science (BAGSci) addresses the demands for farmers and primary producers to meet the requirements of international markets, including the European Union's expectation for food to be traceable from 'paddock to plate'.

Lincoln University has played a fundamental role in training managers, researchers, consultants and employees within the agricultural sector for more than 135 years. Our graduates have a reputation for 'hitting the ground running' because our qualifications are applied and relevant. Real world examples are integrated into the teaching programmes through case studies, field trips and tours. Students must also do a period of industry-based work experience as a requirement of the agriculture programmes.

The Bachelor of Agricultural Science can be awarded with Honours. This pathway is open to students who have completed their sixth semester (normally third year) of study and passed all courses at a sufficiently high standard (B average in last two years of study).

## Entry requirements:

- University Entrance through NCEA, or an approved equivalent qualification.
- If English is not your first language other entry requirements will apply.

Refer to [www.lincoln.ac.nz](http://www.lincoln.ac.nz) for more information.

## Recommended preparation:

Maths, English, Biology and Chemistry would be advantageous.

## Programme requirements:

- Pass at least 480 credits (32 courses)
- Pass all compulsory courses
- Complete no more than 165 credits (11 courses) at 100-level
- Complete at least 150 credits (10 courses) at 300-level
- Complete all practical work requirements.

## Practical work:

28 weeks in total:

- One dairy farm (minimum 10 weeks – maximum 14 weeks)
- One sheep/beef farm (minimum 10 weeks – maximum 14 weeks).

Any time remaining can be on a different type of farm or in an allied industry of your choice.



## Career outcomes:

The BAgSci is a flagship degree recognised by industry, which traditionally offers a pathway into consultancy, research, technical roles and farm management. Demand for graduates has been very strong in recent years and graduates can pick from a wide range of options across traditional science/technical opportunities and agribusiness.

## Programme content

Content can include topics such as:

- Animal Science
- Land, People and Economics
- Research and Analytical Skills
- Primary Industry Systems
- Chemistry
- Plant Science
- Soil Science
- Livestock Production Science
- Sustainable Futures
- Principles of Farm Management
- Plant Production Systems
- Biometrics
- Soil Management.

## >> PROGRAMME CONTACTS



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# BACHELOR OF Commerce (Agriculture)

[www.lincoln.ac.nz/BComAg](http://www.lincoln.ac.nz/BComAg)



## DURATION:

3

Years

## TAUGHT AT:



**Te Waihora campus**  
(Lincoln, Canterbury)

## INTAKE:

Semester Semester

1

2



Lincoln University's Bachelor of Commerce (Agriculture) is a specialised, industry-based degree that prepares graduates for leadership in both the farming and agribusiness sectors.

It teaches the bio-economic basis for agriculture through 'applied academic' courses, real-world case studies, field trips and regional study tours.

The programme is structured around a number of integrated agricultural and agribusiness courses. You will also learn about economics, business law and finances as well as core University topics to put your learning in a broader context. Students of the BCom(Ag) can also choose additional courses of interest to extend their career opportunities.

## Entry requirements:

- University Entrance through NCEA, or an approved equivalent qualification.
- If English is not your first language other entry requirements will apply.

Refer to [www.lincoln.ac.nz](http://www.lincoln.ac.nz) for more information.

## Recommended preparation:

English, Maths, Biology as well as a passion for the agricultural industry is beneficial.

## Programme structure:

- Pass at least 360 credits (24 courses)
- Pass all compulsory courses
- Complete no more than 165 credits (11 courses) at 100-level
- Complete at least 75 credits (5 courses) at 300-level
- Complete all practical work components.

## Practical work:

39 weeks in total:

- Two different types of farm for a total of 26 weeks with a minimum of 11 weeks on each.

Any time remaining can be working on a different type of farm or in an allied industry of your choice.



## Career outcomes:

Graduates of this programme are well equipped for leadership roles across the agricultural industry.

### Programme content

Content can include topics such as:

- Land, People and Economies
- Research and Analytical Skills
- Animal, plant and soil production
- Transforming Data into Information
- Financial Information for Business
- Economies and Markets
- Introduction to Commercial Law
- Primary Industry Systems
- Sustainable Futures
- The Agribusiness Environment
- Farm Management Analysis and Planning
- Farm Development and Investment
- New Venture Planning in Primary Production
- Agribusiness Strategic Management.

## ANNA PAGET

*Bachelor of Commerce (Agriculture)  
Rural Valuer, TelferYoung*

Anna Paget decided to attend Lincoln University because of its “great reputation in the agricultural sector”.

She graduated in 2014 with a Bachelor of Commerce (Agriculture), majoring in Rural Valuation, and now lives in Napier where she works as a graduate rural valuer at TelferYoung.

Anna describes the Lincoln lecturers and staff as approachable and always willing to help, and says that although the University is small, it has a supportive feel.

She still keeps in touch with many of the friends she met at Lincoln, and particularly loves catching up on how their careers are progressing.



## >> PROGRAMME CONTACTS



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# BACHELOR OF Science

[www.lincoln.ac.nz/BSc](http://www.lincoln.ac.nz/BSc)



## DURATION:

3

Years

## TAUGHT AT:



**Te Waihora campus**  
(Lincoln, Canterbury)

## INTAKE:

Semester 1 Semester 2

1

2



As our world changes, we need highly skilled individuals who can tackle the big issues. How do we feed the world while minimising environmental impact? How do we protect our environment from biological threats? How do we maintain good environmental quality? These are the pressing questions facing scientists of the future. As a Lincoln University Bachelor of Science (BSc) graduate, you can help answer them.

Lincoln University's Bachelor of Science programme is applied and context-based designed to produce graduates who have a firm grounding in the basic sciences. These can be applied to processes in the environment, in ecosystems or at the molecular level. This will contribute to sustainable management and conservation of land, water and air and the country's natural resources.

This degree has seven majors to choose from: Agritech, Bioprotection and Biosecurity, Conservation and Ecology, Food Science, Individual, Land, Water, Environment and Māori and Indigenous Knowledge of the Environment.

## Entry requirements:

- University Entrance through NCEA, or an approved equivalent qualification.
- If English is not your first language other entry requirements will apply.

Refer to [www.lincoln.ac.nz](http://www.lincoln.ac.nz) for more information.

## Recommended preparation:

A good grounding in the science subjects from school: Chemistry, Physics, Biology, Mathematics/Statistics. Computing is a useful option too.

## Programme structure:

- Pass at least 360 credits (24 courses)
- Pass all compulsory courses
- Complete no more than 165 credits (11 courses) at 100-level
- Complete at least 75 credits (5 courses) at 300-level
- Meet the requirements of at least one of the named Bachelor of Science majors.



“

Lincoln is right at the cutting edge in this new era of research. Studying at Lincoln meant I could be part of that exciting research initiative.

”

### Agritech major

The Agritech major will produce graduates who are highly skilled in using information technologies to create value and sustain performance in land-based industries. Graduates will be able to develop, apply and evaluate appropriate information technology solutions to important challenges for optimising land-based performance. A major in Agritech will enhance and support the sciences that underpin primary industries. This qualification will produce graduates who have the unique combination of the knowledge and skills to utilise digital technologies, and the knowledge of the science behind primary industries – resulting in the ability to find IT-led solutions to production, environmental and land-use problems.

#### Career outcomes

The application of advanced information technologies in the land-based sectors is increasing and there are diverse employment opportunities for graduates from this programme. BSc-Agritech graduates have unique skills that are highly-valued by a range of employers across the public and private sectors. Possible employers might include: precision agriculture and environmental management consulting firms, agricultural, horticultural, or forestry companies, the wine industry, and local and central government. Potential jobs might include: precision agriculture consultant, natural resource analyst, precision technology software/hardware developer, precision technology specialist.

## >> PROGRAMME CONTACTS



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Lecturer

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# BACHELOR OF Viticulture and Oenology

[www.lincoln.ac.nz/BVO](http://www.lincoln.ac.nz/BVO)



## DURATION:

3

Years

## TAUGHT AT:



**Te Waihora campus**  
(Lincoln, Canterbury)

## INTAKE:

Semester 1 Semester 2

1

2



Lincoln University delivered the first cool climate wine production programme in the English-speaking world, and we've been leading the way ever since.

Lincoln University's specialist Bachelor of Viticulture and Oenology degree (BV&O) prepares graduates for a great career in the wine sector. It covers basic science preparation through to advanced viticulture and wine science, pest and disease management, biometrics and wine chemistry. You can then tailor the rest of your degree using electives to fit your areas of interest and individual career aspirations.

Lincoln University's BV&O will also take you places. Our graduates are all over the world; from the Gibbston Valley to the Hunter Valley, from Blenheim to Bordeaux.

## Entry requirements:

- University Entrance through NCEA, or an approved equivalent qualification.
- If English is not your first language other entry requirements will apply.

Refer to [www.lincoln.ac.nz](http://www.lincoln.ac.nz) for more information.

## Recommended preparation:

A good grounding in sciences can be useful but is not essential.

## Programme requirements:

- Pass at least 360 credits (24 courses)
- Pass all compulsory courses
- Complete no more than 165 credits (11 courses) at 100-level
- Complete at least 75 credits (5 courses) at 300-level
- Complete all practical work components
- Attendance at multi-day field tour, taken in the final year of study.

## Practical work:

18 weeks in total:

- 6 consecutive weeks in a commercial vineyard
- 6 consecutive weeks in a commercial winery
- 6 consecutive weeks in an allied industry, e.g. wine bar or shop, winery laboratory, commercial vineyard or brewery.



## Career outcomes:

Graduates of the Bachelor of Viticulture and Oenology programme move into a range of careers dependent on the courses they chose in their programme of study. From primary industry through to commerce and consultancies, examples are: viticulturist, vineyard foreman, vineyard manager, cellar manager, winery lab manager, winemaker, marketing manager, sales representative, and wine writer.

## Programme content

Content can include topics such as:

- Biological Sciences
- Plant Science
- Chemistry
- Soil Science
- Introduction to the Winegrowing Industry
- Horticultural Systems
- Biometrics
- Viticulture
- Principles of Wine Science
- Wine Quality Assessment.

## >> PROGRAMME CONTACTS



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Senior Lecturer

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# DIPLOMA IN Agriculture (Level 5)

[www.lincoln.ac.nz/DipAg](http://www.lincoln.ac.nz/DipAg)



## DURATION:



Year

## TAUGHT AT:



Te Waihora campus, through the  
Regional Diploma Programme  
and Telford campus

## INTAKE:

Semester



As a global producer and exporter of high quality farmed products, New Zealand's farming community is well supported by a progressive rural service sector.

The Level 5 Diploma in Agriculture (DipAg) is a one-year programme offering students a general background in agriculture. Students are then able to complete the advanced Level 6 Diploma in Farm Management (DipFarmMgt), which offers a more specific focus on farm and business management skills.

## Entry requirements:

Applicants must:

- Have the literacy and numeracy requirements for University Entrance
  - Be proficient in English
  - Have National Certificate in Agriculture at Level 4 or higher, obtained through an approved polytechnic institution
- OR
- Have NCEA Level 2, with a minimum of 40 credits over four subjects recognised by Lincoln University as suitable for entry to this diploma.  
*Note: the list of subjects is reviewed periodically and applicants who have taken subjects other than those listed will be considered on a case-by-case basis. A maximum of 24 credits in any one subject will be counted towards the total*
- OR
- Have special admission.

“

Lincoln University was where I truly found my passion for agribusiness.

”

## What you will study:

Lincoln University's DipAg gives students an introduction to agriculture and horticulture. Students seeking a career in the management of farm or horticultural businesses are strongly advised to continue on to the Diploma in Farm Management or Diploma in Horticultural Management.

### Programme content

Includes:

- Computing and Communication
- Livestock Production Systems
- Farm Management Systems
- Plant and Animal Health
- Plant Husbandry
- Engineering
- Soils and Soil Management.

## Practical work:

Practical work is a requirement of this programme. Full details are available in the handbook on our website and at the start of the semester.

A summary of requirements is:

- 12 weeks in total on at least two different types of farm.

It is important that students in this programme have the following attributes to ensure successful completion of the practicum:

- Competence in driving vehicles (previous tractor or truck driving experience is an advantage)
- Previous farming experience is preferred, though not essential
- Physical ability for working on farms without endangering yourself or others.

## Career outcomes:

On successful completion of the Diploma in Agriculture (Level 5) students can continue their studies and complete the advanced Diploma in Farm Management (Level 6).

As one of Lincoln's oldest qualifications, DipAg graduates can now be found throughout the primary sector: from policy roles at government level, to on-farm managers and owners.

### JASON TAIAROA

*Diploma in Agriculture; Bachelor of Environmental Management and Planning  
Technical Support Officer for Pest Operations,  
Nga Whenua Rahui, Te Kaha*

"When I arrived at Lincoln, I had been out of school for a while. Student Support helped me with written reports, essays and maths. I wouldn't be in the position I am now without them."



Whenua Kura Scholarships for this programme are available. For more information visit: [www.whenuakura.co.nz](http://www.whenuakura.co.nz)

## >> PROGRAMME CONTACTS



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# DIPLOMA IN Farm Management (Level 6)

[www.lincoln.ac.nz/FarmMgt](http://www.lincoln.ac.nz/FarmMgt)

## DURATION:

1

Year

## TAUGHT AT:



**Te Waihora campus**  
(Lincoln, Canterbury)

## INTAKE:

Semester

1



Students who have completed a Diploma in Agriculture and are seeking a career in the management of farm businesses are strongly advised to continue on to the Diploma in Farm Management (DipFarmMgt).

## Entry requirements:

Applicants must:

- Have successfully completed Lincoln University's Diploma in Agriculture
- Be proficient in English.

## What you will study:

In the DipFarmMgt you will study aspects of agribusiness management such as land purchase and ownership, financial and taxation management, risk and uncertainty, political organisations, agricultural law, machinery ownership and labour management. You will also choose four elective courses from options such as beef and deer production, dairy production, sheep production, engineering, annual crop production, and pasture management.

## Programme content

Includes:

- Farm Management.

Elective courses:

- Beef and Deer Production
- Dairy Production
- Sheep Production
- Engineering II
- Applied Agroforestry
- Amenity Horticulture
- Fruit Crop Production
- Annual Crop Production
- Pasture Management.



## AGRICULTURE

\$19 billion pa

AGRICULTURE (PASTURAL) 1/2 OF ALL NZ PRIMARY EXPORTS

### Practical work:

Practical work is a requirement of this programme. Full details are available in the handbook on our website and at the start of the semester.

A summary of requirements is:

- 44 weeks in total on at least two different types of farms.

It is important that students in this programme have the following attributes to ensure successful completion of the practicum:

- Competence in driving vehicles (previous tractor or truck driving experience is an advantage)
- Previous farming experience is preferred, though not essential
- Physical ability for working on farms without endangering yourself or others.

### Career outcomes:

Career opportunities in one of New Zealand's largest industries – agriculture – are numerous. Demand for skilled and experienced staff remains high. Lincoln University diploma holders work in a variety of roles across the primary industries, from on-farm managers to the finance sector, consultants, service industry and primary human resources management.

Whenua Kura Scholarships for this programme are available. For more information visit: [www.whenuakura.co.nz](http://www.whenuakura.co.nz)

### >> PROGRAMME CONTACTS



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# DIPLOMA IN Horticulture (Level 5)

[www.lincoln.ac.nz/DipHort](http://www.lincoln.ac.nz/DipHort)



## DURATION:

1

Year

## TAUGHT AT:



Te Waihora campus  
and through the  
Regional Diploma Programme

## INTAKE:

Semester Semester

1

2



Horticulture is an important part of New Zealand's land-based economy. Our horticulture programmes will provide you with the applied skills and knowledge to pursue a management career in the horticultural and agribusiness industries.

## Entry requirements:

Applicants must:

- Have the literacy and numeracy requirements for University Entrance
  - Be proficient in English
  - Have National Certificate in Agriculture at Level 4 or higher, obtained through an approved polytechnic institution
- OR
- Have NCEA Level 2, with a minimum of 40 credits over four subjects recognised by Lincoln University as suitable for entry to this diploma.  
*Note: the list of subjects is reviewed periodically and applicants who have taken subjects other than those listed will be considered on a case-by-case basis. A maximum of 24 credits in any one subject will be counted towards the total*
- OR
- Have special admission.

## What you will study:

The DipHort is a one-year diploma providing you with an introduction to horticultural production systems.



## Programme content

Includes:

- Computing and Communication
- Plant Health
- Propagation and Nursery
- Horticultural Management Systems
- Soils and Soil Management
- Plant Studies.

## Practical work:

Practical work is a requirement of this programme. Full details are available in the handbook on our website and at the start of the semester.

A summary of requirements is:

- 12 weeks in total on at least two different types of horticultural enterprises.

## Career outcomes:

Graduates work in a range of horticulture-related businesses.

On successful completion of the Diploma in Horticulture students can continue their studies and complete a Diploma in Horticultural Management.

### ANNIE MARTIS

*Diploma of Horticulture  
Landscaper*

"I loved the culture of the University, where people knew how to work hard and play hard. It was somewhere I could study, grow my knowledge, and have a hell of a good time while getting a world recognised qualification."



## >> PROGRAMME CONTACTS



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# DIPLOMA IN Horticultural Management (Level 6)

[www.lincoln.ac.nz/HortMgt](http://www.lincoln.ac.nz/HortMgt)

## DURATION:

1  
Year

## TAUGHT AT:

  
**Te Waihora campus**  
(Lincoln, Canterbury)

## INTAKE:

Semester Semester

1 2



The focus of the Diploma in Horticultural Management (DipHortMgt) is on the development of knowledge and skills in applied horticultural business management.

## Entry requirements:

Applicants must:

- Have successfully completed Lincoln University's Diploma in Horticulture (DipHort)
- Be proficient in English.

## What you will study:

Courses cover analysis and planning in horticultural business, contemporary industry issues, employment relations and issues, management of labour, and land laws relevant to horticulture.

The emphasis on business management combined with horticulture and production courses makes this diploma highly relevant and immediately applicable to the work place.

## Programme content

Includes:

- Horticultural Management.

Elective courses:

- Beef and Deer Production
- Dairy Production
- Sheep Production
- Engineering II
- Applied Agroforestry
- Amenity Horticulture
- Fruit Crop Production
- Annual Crop Production
- Pasture Management
- Wool Production and Marketing.



## HORTICULTURE

**\$4 billion pa**  
EXPORTS (2014)

**7449 people pa**  
STUDYING IN THE FIELD OF HORTICULTURE

HORTICULTURE GENERATES  
**\$3.9 billion**  
FROM 123,000ha

### Practical work:

Practical work is a requirement of this programme. Full details are available in the handbook on our website and at the start of the semester.

A summary of requirements is:

- 44 weeks in total on at least two different types of horticultural enterprises.

### Career outcomes:

The Diploma in Horticultural Management prepares students for management of modern horticultural enterprises.

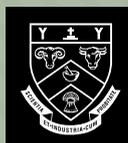
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# DIPLOMA FOR Rural Veterinary Technicians (Level 5)

[www.telford.ac.nz/DipRVT](http://www.telford.ac.nz/DipRVT)

## DURATION:



Year

## TAUGHT AT:



**Telford campus**  
(Balclutha, Otago)

## INTAKE:



February



Students with an interest in the health and handling of large animals such as horses, cattle, deer, sheep, goats, and alpaca from a veterinary perspective should enrol in this interesting and challenging course.

Rural Veterinary Technicians (RVT) students may become, for example, farmers, scientists and rural veterinary technicians with an interest in large animals.

RTV classes are small, with a hands-on training emphasis. Students develop their skills on the Telford farm and with local veterinarians in the surrounding areas. This equips graduates with industry best practice knowledge and skills.

## Entry requirements:

Applicants must:

- Have completed four years of secondary education and achieved NCEA Level 2 with NCEA Science Level 1 and at least 12 credits in Chemistry and/or Biology at NCEA Level 2 or equivalent
- Be aged 18 years or over be physical and medically fit to manage the work without putting themselves and/or others at risk
- Have adequate literacy and numeracy skills
- Be proficient in English.

Places are limited, so there may be an interview as part of the selection process

## What you will study:

During the year you will develop a range of competencies relating to rural animals, work ethics and professional behaviour.



## Programme content

Includes:

- Anatomy and physiology
- Diseases
- General business practices
- Rural animal reproduction
- Rural animal handling and production
- Surgery.

## Career outcomes:

On successful completion of this programme graduates will be able to work competently as rural veterinary technicians in a veterinary practice.

They could also gain entry-level employment as rural veterinary technicians in allied sectors such as dairy farming/manufacturing, retail outlets, animal research, artificial breeding services and TB testing. High performing graduates may pursue higher education to become technologists or professionals in the animal science field.

## >> PROGRAMME CONTACTS



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# CERTIFICATE IN Agriculture (Level 3)

[www.telford.ac.nz/CertAg](http://www.telford.ac.nz/CertAg)



## DURATION:

1

Year

## TAUGHT AT:



Telford campus  
Smedley Station

## INTAKE:



February



Modern farming requires a blend of practical on-farm skills with up-to-date knowledge of farm management and industry practices. This 37-week programme is designed to give you the skills to be a modern, progressive farmer.

## Entry requirements:

Applicants must:

- Be aged 16 years or over (International students must be 18 years or over)
- Have completed at least three years of secondary education, and achieved NCEA Level 1, or equivalent
- Be confident they can succeed at Level 3, and have the physical ability to manage the work without putting themselves or others at risk
- Have adequate literacy and numeracy skills
- Be proficient in English.

A driver's license is recommended.

Please note: International students require TOEFL 61 ibt, 500 paper, Essay rating (TWE) 4, IELTS of 5.5.

## What you will study:

Studying agriculture provides you with the opportunity to learn a variety of farming skills that will serve you well in your career. This programme places significant emphasis on developing practical skills, with at least 65% of course content involving hands-on learning.

Throughout the year you'll study sheep, beef, dairy and deer farming systems. During regular work experience at Telford you'll either work on one of our farm units or on other farms in the Otago/Southland regions. Many students are offered employment as a result of their work experience.



## RORY HAMILTON

*Certificate in Agriculture*

"The certificate offers a good foundation for someone like me who may not have as much practical experience as some others. I hope to become a shepherd and eventually work my way into a management position on a high-country station."



## Programme content

Includes:

- Agronomy – pastures, crops, soils, fertilisers and agrichemicals
- Land skills – hazard management, quad bikes, tractors, water supplies, chainsaws and environmental sustainability
- Livestock – shearing, milking, livestock handling, health, behaviours and welfare production, feeding and nutrition, breeding and reproduction
- Workshop skills – fencing, mechanics, welding, farm forestry, workshop project and calculations.

## Career outcomes:

As a graduate of the Certificate in Agriculture (Level 3), you'll be able to confidently undertake a variety of agriculture related tasks using your knowledge of agricultural practices and animal husbandry. Shepherds, contractors, farm assistants, shearers, wool handlers, sharemilkers, and relief milkers are just a few of the positions in which our graduates are employed.

Whenua Kura Scholarships for this programme are available. For more information visit: [www.whenuakura.co.nz](http://www.whenuakura.co.nz)

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# CERTIFICATE IN Apiculture (Level 3)

[www.telford.ac.nz/CertAp](http://www.telford.ac.nz/CertAp)



## DURATION:



Year

## TAUGHT AT:



**Kaitaia, Northland**, in partnership with  
Te Runanga o Te Rarawa School of Honey Gatherers

## INTAKE:



May



Our Kaitaia delivery site is New Zealand's national training institute for beekeeping. Beekeeping involves more than just producing honey. New Zealand's primary sector is dependent on healthy pollination of fruit, seed and nut crops for its survival. Beekeeping has an essential role to play in this process and Telford can train you to be skilled and highly employable. We offer small classes with a hands-on training emphasis.



## Entry requirements:

Applicants must:

- Be aged 16 years or over (International students must be 18 years or over)
- Have the academic and physical capability to successfully complete the course
- Be proficient in English.

Please note: International students require TOEFL 61 ibt, Essay rating (TWE) 4, IELTS of 5.5.

## What you will study:

The emphasis is on both theoretical and practical learning, which is why part of the course involves work experience with commercial beekeepers. During the 37-week course you will learn about hive management and manipulation, disease identification, queen bee rearing, bee behaviour, pollination, colony behaviour and extracting honey.

You will also have the opportunity to learn the commercial aspects of the industry, such as marketing and administration.



## HONEY

**\$187 million**  
EXPORTED PER YEAR

**9000 tonnes**  
PRODUCED ANNUALLY



### Programme content

Includes:

- Agricultural chemicals
- Agrimaintenance
- Alternative hive products
- Bee behaviour
- Beekeeping equipment
- Botany
- Business administration
- Entomology
- Health and safety
- Hive manipulations
- Honey processing
- Marketing in the apiculture industry
- New Zealand beekeeping
- Pests and diseases
- Pollination and hive management
- Queen bee rearing.

### Career outcomes:

Beekeeping offers many exciting career opportunities, both in New Zealand and abroad, ranging from the hobbyist beekeeper through to ownership of a commercial beekeeping operation, research, or industry consultancy.

Graduates become directly involved in operating, owning or managing small to large scale apiculture operations in New Zealand and overseas.

“

It's one thing to hear someone talking about a skill, it's another to actually start doing it with your own hands. I loved that aspect of Telford, practising what we learn.

”

*Tim Tautau*

### >> PROGRAMME CONTACTS



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# CERTIFICATE IN Equine (Level 3)

[www.telford.ac.nz/CertEqu](http://www.telford.ac.nz/CertEqu)



## DURATION:



Semester

## TAUGHT AT:



**Telford campus**  
(Balclutha, Otago)

## INTAKE:



February



This qualification is designed for individuals who wish to gain employment in the equine industry. Graduates can enter the equine industry in a number of different areas such as racing stables, sporthorse stables, and horse breeding farms.

## Entry requirements:

Applicants must:

- Be aged 16 years or over on the date the programme of study commences – unless an exemption from school has been given (International students must be 18 years or over)
- Have reasonable likelihood of success at Level 3, including the physical ability to manage the work without putting themselves and/or others at risk
- Have achieved NCEA Level 1 or equivalent
- Be proficient in English.

Additionally, students must be able to walk, trot and canter in a balanced position and be able to jump 60cm in a balanced position on a horse.

## What you will study:

Theory-based lectures complement practical lessons, with classes focused on all aspects of equine life, from exercise physiology and nutrition, through to horse reproduction and breeding. Telford offers small classes with a 'hands-on' training emphasis.

On completion of Level 3, students can progress to Level 4 and select a specific area of study.

Please note: those students who enter the Certificate in Equine (Level 3) in the non-riding option can exit the programme having gained the required skills for entry into stable practice employment. Those students wishing to continue with non-riding options may enter the Certificate in Equine (Level 4) and elect either the breeding or harness racing strands only.



## Programme content

Includes:

- Equine health 2
- Equine industries – introduction to sporthorse, harness racing, track riding, breeding and trekking
- Equine land skills 1
- Stable practices.

## Career outcomes:

On completion of this programme, graduates enter the equine industry in a number of different areas such as racing stables, sporthorse stables, and stud farms.



## >> PROGRAMME CONTACTS



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# CERTIFICATE IN Equine (Level 4)

[www.telford.ac.nz/CertEqu](http://www.telford.ac.nz/CertEqu)



## DURATION:



Semester

## TAUGHT AT:



**Telford campus**  
(Balclutha, Otago)

## INTAKE:



July



This course builds on the Certificate in Equine (Level 3) allowing students to specialise in their area of interest.

## Entry requirements:

Applicants must:

- Have completed Certificate in Equine (Level 3) or equivalent, and
- Be proficient in English.

Additionally, those choosing the Sporthorse Industry Strand must have the ability to jump a horse 70cm (both show jumps and cross country fences) upon course entry.

## What you will study:

Theory-based lectures again complement practical lessons, with classes focused on all aspects of equine life, from exercise, physiology and nutrition, through to equine breeding.

## Programme content

Includes:

- Equine health 3
- Equine nutrition
- Land skills 2
- Industry strand – students choose one strand from:
  - Sporthorse (either riders or coaches)
  - Track riding
  - Track racing or harness racing
  - Breeding.

Our equine programme will give you a solid grounding in all aspects of horsemanship.



## Career outcomes:

Upon successful completion of this programme, you will graduate with a level of competence required in the competitive equine industry. You could gain employment in a number of different areas such as sporthorse stables, track riding, harness racing, stud farms, riding schools, running their own equine business or working towards stable management. You will be able to work with minimum supervision through a range of activities.



## >> PROGRAMME CONTACTS



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# CERTIFICATE IN Farming (Dairy) (Level 3)

[www.telford.ac.nz/CertFarm](http://www.telford.ac.nz/CertFarm)



## DURATION:

1  
Year

## TAUGHT AT:



Telford campus  
Te Whenua Hou (North Canterbury)  
Ngāi Tahu Farms

## INTAKE:

FEB  
February



This programme serves the needs of school leavers, people who may have changed careers, or adult learners new to the agriculture industry. The competencies gained will help ensure the graduate is well prepared to move into employment as a dairy assistant.



The student experience is an eye-opener, but in a positive way. You really learn about yourself and others, especially in a close team environment. We all seem to do the same things together, like travelling, hunting, playing sports and studying. We all seem to support each other with assignments and other activities.



## Entry requirements:

Applicants must:

- Be aged 16 years and over (International students must be aged 18 years and over)
  - Have an adequate level of literacy and numeracy skills
  - Be proficient in English
  - Have completed three years of secondary education
  - Have a reasonable likelihood of success at Level 3, including the physical ability to manage the work without putting themselves or others at risk
- OR
- Have achieved one year's experience in the dairy industry.

## What you will study:

The Certificate in Farming (Dairy) provides the opportunity to learn the skills needed for a career in dairy farming. It places significant emphasis on practical skills and hands on learning. Much of the tuition will take place in the field but there is a classroom component which teaches the pasture management and livestock health and reproduction knowledge essential for a career in the dairy industry.



## Programme content

Includes:

- Agriculture vehicles
- Animal handling and health
- Animal husbandry
- Fencing and water reticulation
- Health and safety requirements
- Milking
- Pastures and feeding livestock
- Working in the industry.

## Career outcomes:

On successful completion of this programme graduates will be employable as a dairy farm assistant, and also be able to assist with general agricultural farming. All graduates will have the opportunity to progress their career in the dairy industry through further study.

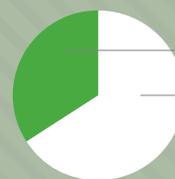
Whenua Kura Scholarships for this programme are available. For more information visit: [www.whenuakura.co.nz](http://www.whenuakura.co.nz)

## STUDENTS

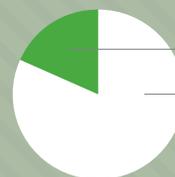


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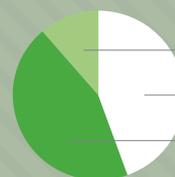
EQUIVALENT  
FULL-TIME  
STUDENTS



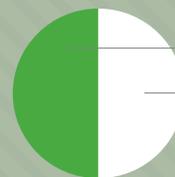
TELFORD CAMPUS 34%  
TE WAIHORA CAMPUS 66%



INTERNATIONAL 18%  
DOMESTIC 82%



POSTGRADUATE 11%  
UNDERGRADUATE 44%  
PRE-UNDERGRADUATE\* 45%



FEMALE 50%  
MALE 50%

2014 Annual Report

\* Certificates, diplomas, correspondence and others

## >> PROGRAMME CONTACTS



**Suzanne Carruth**  
Student Liaison Officer  
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P: 0800 835 367



**STUDENT LIAISON TEAM**  
E: [land@lincoln.ac.nz](mailto:land@lincoln.ac.nz)  
P: 0800 10 60 10  
03 423 0000

# CERTIFICATE IN Forestry (Level 3)

[www.telford.ac.nz/CertFor](http://www.telford.ac.nz/CertFor)



## DURATION:



Year

## TAUGHT AT:



**Telford campus**  
(Balclutha, Otago)

## INTAKE:



February



The Certificate in Forestry will equip you with the practical knowledge and skills that are required for the forestry industry, especially silviculture and harvesting.

It has a strong practical focus and is designed to provide a broad understanding of the industry. You can expect to spend the majority of your time away from the Telford campus, working with the tutor and trainers in local forests, and with forestry crews throughout Otago. As part of the course, you'll also complete seven weeks of work experience.

## Entry requirements:

Applicants must:

- Be aged 16 years or over (International students must be 18 years or over)
- Have completed three years of secondary education
- Demonstrate a keen interest in forestry
- Be proficient in English.

## What you will study:

The forestry programme is an extremely worthwhile course, which has been developed and refined over a 10 year period by logging experts at the Telford campus, utilising the latest forestry techniques and equipment.

## Programme content

The following courses are mandatory:

- Chainsaws – forestry
- HSE requirements in forestry
- Working in forestry.

Students will choose two of the following electives:

- Introduction to breaking out
- Introduction to forest establishment
- Introduction to landing operations
- Introduction to pruning plantation trees.

And two from the following electives:

- Knowledge of forest harvesting
- Selecting and felling plantation trees
- Thinning plantation trees.



## FORESTRY

**\$5 billion**  
ANNUAL GROSS  
INCOME TO NZ

**3%**  
OF NZ'S GDP



### Career outcomes:

On successful completion of this programme graduates will be able to work competently in harvesting or silviculture operations, at the operator level in supervised roles. All graduates will have the opportunity to expand and/or progress their forestry career through further study.

As a graduate of the Certificate in Forestry you are extremely employable. Many of our students are offered jobs while undertaking their work experience at the end of the programme.

### >> PROGRAMME CONTACTS



**Suzanne Carruth**  
Student Liaison Officer  
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**STUDENT LIAISON TEAM**  
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P: 0800 10 60 10  
03 423 0000





# Where are Lincoln University graduates?





**JAMES WILLIAM BOOKER**

***Bachelor of Agriculture; Master of Applied Science (Hons)***

*Operations Manager, Waiaiti Holdings Te Aroha*

James Booker attended Auckland Grammar School. He chose Lincoln because of the mixture of subjects in the Agricultural Science programme that suited his interests. James says, “A mix of science and management courses in soil, animal and plant science provided a great background to build my interest in dairy farm systems.”

James enjoyed working in the field to see how different farm processes operate under a range of physical and financial conditions. He learned about New Zealand pastoral-based farming systems. This experience directly assisted him in his current role to manage staff, set a financial budget, monitor feed availability, manage supplementary feeding, set a breeding and mating policy, and more.

James graduated and began working in consultancy and analytics within the farming industry both in New Zealand and the United Kingdom. Then the opportunity to manage his family’s 400-cow dairy farm in the Waikato presented itself. He took it and “never looked back”.

“My advice to prospective students is to consider the possibilities and employment opportunities. Tertiary skills in agriculture and the applied sciences are in demand worldwide.

“As for answering the question ‘Is Lincoln the right choice for you’, Lincoln has a great atmosphere, with heaps of social events to keep students entertained.”

**NICOLE MORRIS**

***Bachelor of Agriculture; Master of Agricultural Science***

*Area Manager, Genetic Technologies Limited*

Nicole Morris attended Gore High School and went to Lincoln University to gain a sound education in the agricultural industry.

“I chose to study a BAg because the degree at Lincoln provides a variety of science courses – such as biochemistry, physics, and soil, plant and animal sciences – as well as farm management. The combination of these courses prepares you well for employment in the agricultural industry.”

Nicole continued her studies with a Master of Agricultural Science to further sustain her passion for scientific research. While at Lincoln, Nicole cultivated skills such as prioritisation, scientific report writing, data interpretation and being able to think from a farm systems perspective.

“Lincoln’s such a fantastic place to study. I loved going on the field trips,” she says.

Since Nicole graduated, she has progressed from her first job as an Agronomist to being an Area Manager who deals with specialist seed products for the dairy industry.

“The degrees at Lincoln provide a wide knowledge base making it easy to get employment. Agriculture in New Zealand is a huge, exciting area to work in, with loads of opportunities.”



### **ALEXANDRA TAYLOR**

***Bachelor of Agricultural Science (Hons)***  
*Sustainability Developer, DairyNZ*

Alexandra Taylor visited Lincoln University during a science field trip while still at school at Villa Maria College in Christchurch. She has five family members who also attended Lincoln.

Alexandra's current role focuses on sustainability in the dairy industry. She works with farmers, dairy representatives and industry regulators to invent practical and effective solutions to sustainability challenges on the farm. Water quality and nutrient management are a key part of her role.

"Agricultural science seemed like a worthy and prosperous career path to pursue because of the contribution it has made to New Zealand's well-being and its positive global effect."

Alexandra was selected to participate in the Fonterra Milk Supply graduate programme, a great opportunity for industry exposure with big agricultural corporations who head-hunt people with practical experience and qualifications in the field.

This opportunity led to an 18-month milk supply internship, leading Alexandra to accept an internal auditing role in food safety before she settled into environmental development.

"Lincoln's really welcoming, and a great environment for shaping people with both pragmatic common sense and a science-based approach to be successful and effective in a highly emotive field such as sustainability."



### **JAMES McELREA**

***Bachelor of Viticulture and Oenology***  
*Owner, Black Peak Wines*

James McElrea graduated from Lincoln University in 2001 with a Bachelor of Viticulture and Oenology and now works at Black Peak Wines in Wanaka.

Originally from Auckland, he chose to attend Lincoln because he wanted to pursue a career in the wine industry. He says the viticulture and oenology programme was the ideal foundation for helping him to achieve this goal.

As well as owning a winery, he works as a winemaker for Maude Wines, also in Wanaka.

During his studies, he most enjoyed working and problem-solving with fellow students, and he describes the lecturers as industry leaders in their fields.

"I still keep in touch with people I met at Lincoln, both staff and students, especially those who are working in the wine industry," he says.

He appreciated the clean, modern facilities and laboratories at the University, as well as the sports opportunities on offer at the Recreation Centre.

He describes Lincoln as progressive, modern and intimate, and says there is a broad range of courses available to suit all interests and requirements.

James stayed in Hudson Hall during his first year of study, which he says was an invaluable experience that allowed him to get to know many of his fellow students and adjust to university life.



**LEN IBBOTSON**

***Bachelor of Viticulture and Oenology***  
*Viticulturist, Terra Sancta Wines*

Len Ibbotson, originally from Hawke’s Bay, graduated from Lincoln University in 2012 with a Bachelor of Viticulture and Oenology.

He now works as a viticulturist at Central Otago’s Terra Sancta Wines.

“I couldn’t find the type of programme I wanted to study at other universities, and coming to Lincoln was a good opportunity to travel to the South Island. It also made sense to study plants at a university with a strong land-based history,” he says.

He was impressed with the great choice and variety of courses available and says the lecturers and staff were enthusiastic, personable and very approachable.

“I also loved the beautiful campus and the good options for food and coffee. There’s a great gym too, and a nice mix of new and classic lecture halls.”

Len says the most valuable aspect of his study was the balance between plant and wine science, and the practical wine and grape management tools he received.

“I have found that my degree is highly relevant to the wine-growing industry and provides sound theoretical knowledge, which enables recruitment and development,” he says.

Len still keeps in touch with staff and friends from Lincoln University and says he loved meeting many diverse and interesting people on campus.

**KELSI GOUGH**

***Bachelor of Agricultural Science (First Class Honours)***  
*Rural Manager, FMG*

Lincoln’s excellent reputation in the agricultural sector was a major reason for Kelsi Gough choosing to study at the University. However, her decision was cemented when she heard a number of former students reminiscing fondly about their Lincoln days.

“This is what tipped the scales in favour of attending Lincoln over other universities offering similar courses,” she says.

Kelsi graduated in 2013 with a Bachelor of Agricultural Science (First Class Honours) and accepted a role in the graduate programme for FMG, which she describes as New Zealand’s leading insurer.

“I am now based in Pukekohe, working as a Rural Manager for the company.”

She says she enjoyed the variety of courses available to her at Lincoln.

“As there are few prerequisites in the Agricultural Science degree, the direction you take is really up to you. During my four-year programme, I studied a diverse range of subjects, including soil, animal and plant sciences, farm management, law, economics and rural valuation.”



## **LAURA KEENAN**

***Bachelor of Agricultural Science (First Class Honours)***

*Farm Environmental Consultant, South Island*

After graduating from Lincoln University in 2015 with a Bachelor of Agricultural Science (First Class Honours), Laura Keenan was offered a position as a Farm Environmental Consultant at a soil consultancy company that services the South Island.

“My role includes in-depth nutrient modelling, sales, purchasing and planning. We also provide detailed farm scenario analysis reports, in direct alignment with farmers’ goals. This allows landowners to better manage risk and ensure they are compliant from a regional council perspective.

“In addition, I act as a Soil Consultant for Soil Matters, assessing clients’ individual soil fertility needs from soil testing, fertiliser recommendations and crop and pastoral advice.”

Laura says her studies at Lincoln University thoroughly prepared her for these roles. “I found the agricultural and agribusiness courses really enjoyable and relevant to a future career. The research facilities are excellent as well. Completing a dissertation and research project also allowed me to grasp all elements of academic research and its importance in New Zealand agriculture.”

She says the interactions she was able to have with her lecturers proved particularly helpful. “The lecturers were definitely an integral part of my success at Lincoln, as they were more than happy to elaborate and spend their own valuable time to ensure my understanding was correct.”



## **FRANCES SHOEMACK**

***Bachelor of Viticulture and Oenology***

*Founder, Abel perfume house*

Frances Shoemack, who grew up on a dairy farm in South Canterbury, attended Lincoln University to study winemaking.

In 2004, she received a Bachelor of Viticulture and Oenology, with an emphasis on marketing and business.

She now lives in the Netherlands, where she has transferred her passion for wine to fragrance, having founded her own boutique perfume house in central Amsterdam.

She says her winemaking background plays a major role in her career and the Lincoln programme helped to develop her palate and increase her knowledge of international wines.

“The lecturers were very helpful and passionate about the programme,” she says. “I especially enjoyed taking part in wine sensory labs during my studies.”

Following her graduation from Lincoln, Frances took on a role as a winemaking cadet at Villa Maria Estate in Auckland.

“The job gave me great access to all areas of the winemaking process, from the vineyard to the global export market,” she says. “It sparked my interest in the business side of the industry and led to future roles working at the New Zealand Winegrowers’ Association, marketing New Zealand wine internationally.”

Frances founded her perfume company, Abel, two years ago and now sells her products globally.

# Employment opportunities

[www.lincoln.ac.nz](http://www.lincoln.ac.nz)

## CAREERS IN AGRICULTURE AND HORTICULTURE



» Graduates of Lincoln University find employment throughout New Zealand and the world, in both the rural sector and urban centres, within a wide range of commercial, government, research and private enterprises.

Agriculture and horticulture encompass business and science. As you can see from the graduates profiled in this book, that there are a broad range of options open to graduates right across the value chain, ranging from on-farm through to agribusiness. In gumboots and business suits, lab coats and safety gear, from urban offices to remote farms, working with animals, people, crops and equipment, agriculture and horticulture graduates find themselves everywhere, in New Zealand and all over the world.

Major areas of employment include: farm management; research; consulting; agronomy; genetics; breeding; technical and sales roles – grain and seed, feed, fertiliser, animal health and welfare, crop protection; agribusiness – banking, insurance, accounting and finance, marketing, exporting, business analysis; plant, equipment and machinery; transport and distribution; media; education.

So whether you want to land in the country or the city, working with words and numbers or plants and animals, a qualification in agriculture or horticulture will get you there.

Lincoln University has a Careers and Employment office which can provide you with support and guidance as you navigate your way through your career choices.

To find out more about the opportunities in agriculture and horticulture careers contact: **[michelle.ash@lincoln.ac.nz](mailto:michelle.ash@lincoln.ac.nz)**

# Planning your study and applying

[www.lincoln.ac.nz](http://www.lincoln.ac.nz)

You can apply online using our MyLinc system through the University website, but before you do make sure you have done a bit of homework.



Take some time to decide what level of study best suits you and your abilities and aspirations, as well as to better understand how study is structured at Lincoln University.

There are a lot of options and study levels progress from level 4 to level 10. Most of our undergraduate bachelor's degree students start directly into the first year of their degree – but if you feel you need to upgrade your academic skills, your English language skills, or want a one-year course to lead straight into a particular career, Lincoln University has those bases covered.

There are many pathways to a bachelor's degree. After successfully completing three years and gaining the undergraduate degree you could go on to postgraduate study if you want to gain more knowledge and become more specialised.

To find out more visit [www.lincoln.ac.nz](http://www.lincoln.ac.nz) or see our Certificates and Diplomas or Undergraduate prospectuses.

## How to apply

1

Decide on your programme

2

Apply – click on the Apply Now button on our website or complete your application in **mylinc.nz**

We will assess your application and contact you with an offer if you are successful.

3

Accept your offer through our online system, mylinc

4

Enrol in the individual courses that will make up your qualification programme. Enrolment opens 1 October each year. Enrolment can only take place once an offer of placement has been made and accepted.

# Student Liaison team

Our Student Liaison team will be the first point of contact for you as a future student. They can provide you with any information you need, and answer any questions you may have about course planning, applying or life at Lincoln University. The Student Liaison team also visits secondary schools and attends career expos in all regions.



**Jaime Thomson**  
**Student Liaison Manager**

Jaime leads the Liaison team and is the key contact for schools in Southland, South Canterbury (including Oamaru), and Christchurch.



**Suzanne Jamieson**  
**Student Liaison Officer**

Suzanne is the key contact for Auckland, Waikato and Northland.



**Ekara Lewis**  
**Māori Outreach Coordinator**

Ekara is the key contact for schools in Gisborne and is available to provide support and advice for all future and current Māori students.



**Anna Soboleva**  
**Recruitment Officer, International**

Anna is the key contact for international students already studying in New Zealand who would like to study at Lincoln University.



**Sophie Prangnell**  
**Senior Student Liaison Officer**

Sophie is the key contact for schools in Hawke's Bay, Wellington, Wairarapa, Christchurch and Australia.



**Suzanne Carruth**  
**Student Liaison Officer**

Suzanne is located at our Telford campus, and covers the North Island and the lower South Island.



**Kimberley Forbes**  
**Student Liaison Officer**

Kimberley is the key contact for Otago, Nelson/Marlborough, Wanganui, Manawatu and Christchurch.



## Te Waihora (Lincoln) campus contacts

Freephone: 0800 10 60 10  
(within New Zealand)

Phone: +64 3 423 0000  
(international)

Email: [land@lincoln.ac.nz](mailto:land@lincoln.ac.nz)



**James Agnew**  
**Student Liaison Officer**

James is the key contact for Bay of Plenty/Coromandel, the Central Plateau (North Island), Taranaki, Westland and Christchurch.



## Telford (Balclutha) campus contacts

Freephone: 0800 83 53 67  
(within New Zealand)

Phone: +64 3 419 0300  
(international)

Email: [enquiry@telford.ac.nz](mailto:enquiry@telford.ac.nz)

# WHO CARES ABOUT THE Environment

» We do!

Key to all that Lincoln University does is an **awareness of the environment** – from our course content, to our native plantings, to the paper this publication is printed on.

As New Zealand's specialist land-based university, our mission is to transform land, people and economies, and we aspire to do this without negatively impacting our environment.

Land is something we value. It is, literally, our world.

In 1993 the University adopted an **Environmental Charter and an Environmental Policy** (the first among New Zealand tertiary establishments) to support the work of the already established staff-student group called Lincoln Environmental Organisation (LEO). This led to the formation of a formal Environmental Task Force and the revision of the Policy in 2003 and 2010 – giving the University what it now has: the **Sustainability Advisory Group for the Environment** (SAGE). SAGE works alongside LEO to ensure the University 'treads lightly on the Earth', ensuring we live up to our values in the areas of sustainable practices, stewardship of our own environment, and protection of the wider environment.

The University's School of Landscape Architecture building was built with **locally sourced materials** with a life span of over 100 years and which require minimal maintenance. In this building and across campus, the University continues to make a difference with significant efforts in **energy conservation, water management, resource recovery and waste management**.

Lincoln University is a major supporter of the **Lincoln Envirotown Trust** and provides office space and resources for the Chair of the Trust.

All our publications are printed on **environmentally responsible paper**, produced using Elemental Chlorine Free (ECF), Third Party Certified pulp sourced from well managed and legally harvested forests, and manufactured under the strict ISO14001 Environmental Management System.

New Zealand's native biodiversity makes this country unique and Lincoln University is very proud of our **park-like campus, gardens and the native plantings** we have both on campus and extensively at the Lincoln University Dairy Farm.

The Māori outreach programme and the work of staff across the University aims to facilitate an understanding of, and acknowledges **Māori communities, iwi, hapu, whanau and their affinity with their whenua and their environments**. Formal partnerships and informal collaboration will ensure a continuing mutual understanding and respect for the land, consistent with the concept of kaitiakitanga (stewardship).



## Disclaimer

Every effort is made to ensure that information in this publication is correct at the time of printing, but the content may be subject to change. Lincoln University reserves the right to make changes, amendments or deletions – including the withdrawal of courses - should circumstances change.

Lincoln University does not assume, and hereby disclaims, any express or implied liability whatsoever to any party for any loss or damage caused by errors or omissions, whether these errors or omissions result from negligence, accident or any other cause.

# BE PART OF THE GENERATION THAT WILL MAKE A CHANGE. STUDY AT LINCOLN.



[www.lincoln.ac.nz](http://www.lincoln.ac.nz)

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#### ADDITIONAL INFORMATION

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and resources available for your  
reference, visit

[www.lincoln.ac.nz/brochures](http://www.lincoln.ac.nz/brochures).

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**Lincoln  
University**  
*Te Whare Wānaka o Aoraki*

AOTEAROA • NEW ZEALAND

New Zealand's specialist  
land-based university