



THE UNIVERSITY OF
MELBOURNE

DOOKIE CAMPUS UNDERGRADUATE COURSES



Dookie Campus Undergraduate Courses



*Professor Richard Roush,
Dean, Faculty of Land and Food Resources*

DEAN'S MESSAGE

The Faculty of Land and Food Resources is Australia's leading university faculty supporting the food and natural resource sectors. Responsible resource management is integral to any country's future. Land and Food Resource programs are designed to provide students with skills that will enable them to contribute to meeting the global challenges of quality food production while managing the environment to achieve sustainability for future generations. .

DOOKIE CAMPUS:

Located midway between Shepparton and Benalla, Dookie Campus is the major rural campus of the University of Melbourne, providing courses, research and training in agriculture and food systems and natural resource management that are relevant to the current and future needs of the land and food industries of Victoria, Australia and the international community.

Dookie Campus provides an exciting and relevant education for students following a career path in agriculture and related industries. Curriculum is delivered alongside research and industry projects that are relevant to current and future agricultural issues including water, productivity and the environment.

Cutting edge research including the \$4.5 million Science, Technology and Innovation irrigation research project is incorporated into educational programs. Agricultural students at the University of Melbourne receive a unique educational experience that combines science-based academic programs with practical experience, research projects and the commercial activities of the Dookie Farm.

The Farm Estate comprises 2400 hectares of broadacre cropping, lamb and beef enterprises, a dairy, an orchard and vineyard. The Campus Winery produces wines from grapes grown on campus, with students using the winery for elective subjects such as Vineyard and Winery Operations. Complementing the farms is the largest natural bushland reserve of any Australian university. The Dookie Bushland Reserve underlines the University's commitment to natural resource management teaching and research.

Graduates from the University of Melbourne's Dookie Campus are in a unique position of attaining a qualification from Australia's leading

University complemented by the strong standing of Dookie Campus amongst employers in the fields of agriculture, agribusiness and agronomy. The strength of Dookie Campus' reputation together with the University of Melbourne's national and international ranking allows graduates to seek positions of choice in the state, national and global economies. Graduates in the Bachelor of Agriculture and Associate Degree of Agriculture are in demand, with many employed prior to completion of their course.

Courses delivered at Dookie Campus are integrated into the University's agricultural enterprises. Students develop science based theoretical knowledge that is enhanced through the acquisition of skills in practical knowledge transfer opportunities delivered utilising the Dookie Farm Estate Resources. One such example is participation in Merino breeding trials. Third year students undertake a research project to investigate certain traits in selected sires utilising embryo transfer. These trials are part of a larger national research project – Central Test Sire Evaluation which has the potential to change the Merino Wool Industry..

UNDERGRADUATE COURSES

Associate Degree in Agriculture (Two years full-time or part-time equivalent)

The Associate Degree in Agriculture provides students with the opportunity to develop a range of applied knowledge and theoretical skills across agricultural production, management and business. The course focuses on development of technical and scientific skills supported by practical experience in the real world laboratory of the Dookie Campus Farm Estate. Students are able to study a variety of areas, developing specialisations throughout the course in fields including agricultural services, crop and livestock management, farm production, agribusiness and resource management.

Curriculum includes natural resource management, biology, agricultural systems, sustainable agriculture, agribusiness, agricultural technology, production horticulture and pasture based production systems. The course will provide students with an understanding of the biological and ecological aspects of farming systems that lead to sustainable agricultural management practices and financial management skills enabling them to manage a medium sized enterprise related to agriculture or service industries. Graduates also develop an understanding of issues which impact upon the wider community, national economy and international agricultural scene.

Prerequisites and entry requirements:

Prerequisites for the Associate Degree in Agriculture are a study score of at least 25 in VCE English (Units 3 and 4). In 2007, the Round One Clearly-In Rank was 46.20 and the Guaranteed ENTER (UAI) for 2008 is 54.



Applicants are also encouraged to complete a Supplementary Information Form which is available from the website: <http://www.landfood.unimelb.edu.au/> or by contacting the Faculty of Land and Food Resources, Dookie Campus on (03) 5833 9200.

International Baccalaureate (IB): English. All prerequisite IB studies are at Grade 5 Standard Level or Grade 4 Higher Level or higher. Satisfactory completion of the IB Diploma is required. All prerequisite IB studies are at Grade 5 Standard Level or at least Grade 4 Higher Level.

Articulation:

The Associate Degree in Agriculture is a 'stand alone' qualification, although many students elect to continue studying at Dookie Campus. Articulation pathways exist between the Associate Degree in Agriculture and Bachelor of Agriculture program. Articulating students are generally required to complete an additional 18 months of study.

Bachelor of Agriculture

Three years full-time or part-time equivalent

Four years study at honours level

Designed to facilitate the development of graduates with the knowledge and skills to face the challenges of the changing face of the land and food industries, the Bachelor Agriculture utilises the complementary strengths of the University of Melbourne's Parkville and Dookie Campuses. Students in first year develop a strong scientific knowledge base whilst enjoying the social and academic diversity of the Parkville Campus. This knowledge is extended with the delivery of two block subjects at Dookie Campus where students gain an introduction to the unique environment where they spend the second and third years of their degree program.

At Dookie Campus students are introduced to agricultural production systems on a Farm Estate that is representative of agricultural production enterprises within Australia. Students are able to explore fundamentals of land, food and fibre production in an environment where they may also develop specific skills and knowledge in a field of their choice including sustainable agriculture, land and water management, animal nutrition, agribusiness and cropping specialisations. Opportunity is provided for students to focus their course curriculum by taking electives in areas such as plant and animal production, animal nutrition, agribusiness and production systems.

Students are provided with the opportunity to participate in knowledge transfer activities including industry projects and field placements. These activities develop understanding of land and food industries and facilitate networks for students that enhance learning and development through out their course. Opportunities extend into post graduate study and employment for students both through out and at the completion of the degree program.

Fields of Study

Major fields of study in the Bachelor of Agriculture include:

- Sustainable water and landscape management
- Sustainable agricultural production systems
- Animal nutrition and welfare
- Animal breeding and genetics
- Agribusiness
- Broadacre Crop Production
- Agronomy
- Viticulture and Horticulture
- Global Food and Environmental issues

Prerequisites and entry requirements

2008: Victorian Certificate of Education (VCE): Units 1 and 2 – one of General Mathematics or Mathematical Methods. Units 3 and 4 – a study of at least 25 in English (any).

International Baccalaureate (IB): English and Year 11 Mathematics. Standard level prerequisites must be passed to at least Grade 5 or Higher Level to at least Grade 4.

2009: Victorian Certificate of Education (VCE): Units 3 and 4 – a study of at least 25 in English (any). General Mathematics and Mathematical Methods (Units 1 and 2). Students who enter the course with General Mathematics will undertake Bridging Mathematics as part of their course.

International Baccalaureate (IB): English and Year 11 Mathematics. All prerequisite IB studies are at Standard level prerequisites must be passed to at least Grade 5 Standard Level or Grade 4 Higher Level or higher. These students will undertake Bridging Mathematics as part of their course.

2010: Victorian Certificate of Education (VCE): Units 3 and 4 – English (any) and Mathematical Methods (Units 3 and 4).

International Baccalaureate (IB): English and Mathematics. Standard level prerequisites must be passed to at least Grade 5 and Higher Level to at least Grade 4.

Bachelor of Agriculture (Honours)

All Honours students undertake a year-long Research Project developed in conjunction with an honours supervisor. The course consists of 3 coursework subjects and a research project. Students study one of: Research Philosophies and Statistics, Social Research Methods or Methods for Forest and Ecosystem Research and select two subjects from the following:

- 207-415 Soil Management and Conservation (Semester 1)
- 207-413 Community Natural Resource Management (Semester 2)



- 208-413 Biological Systems Analysis (Semester 2)
- 208-414 Directed Reading in Land Resources (Semester 2)
- other 300 and 400 subjects with the approval of the course coordinator

Further information is available from the Course Coordinator: Dr Ken Young, on email: kryoung@unimelb.edu.au Alternatively students may also contact Dookie Campus on +61 3 5833 9200.

UNDERGRADUATE CAREER PATHWAYS

The land and food industries require a range of skilled professionals who are engaged in sustainable food and fibre production from the paddock (farm) to the plate (consumer). Production of food and fibre for the Australian and International community requires graduates to understand and utilise the new and emerging technologies including plant, animal and food production biotechnology.

The graduates of today and the future will understand, manage and solve global issues including climate change, greenhouse gas emissions, smart irrigation and water utilization, sustainable production systems, animal welfare and genetically modified products.

Careers in agriculture are available for graduates that demonstrate breadth and depth in the agricultural practices, knowledge and thinking. Career pathways include:

- Marketing, sales and promotion
- Crop production and agronomy
- Animal breeding and production
- Animal health and welfare
- Enterprise management
- Journalism and media including agricultural publications
- Animal and plant breeding
- Soil and water conservation
- Biotechnology and genetics
- Supply chain management and logistics
- Government policy
- Education and training
- Finance and banking
- International projects
- Agribusiness
- Irrigation design and wastewater management
- Wine Technology and Viticulture
- Commodity marketing
- Food processing
- Commodity forecasting

APPLICATIONS FOR UNDERGRADUATE COURSES:

Applications for both the Associate Degree in Agriculture and Bachelor of Agriculture are made online through the Victorian Tertiary Admissions Centre (VTAC). Refer: www.vtac.edu.au

The VTAC system opens in July and closes late September.

In addition, you must complete a Supplementary Information Form, available from the Faculty website: www.landfood.unimelb.edu.au

Mature age students are encouraged to apply. Applicants who have completed all or part of a TAFE program may also receive advanced standing or partial credit towards these courses. Credit is given on a case by case basis at the discretion of the Faculty.

ACCESS MELBOURNE

The University has a combined special entry and access scholarships scheme, called Access Melbourne. Access Melbourne enhances your opportunities for selection, allowing you to explain on-going circumstances that may affect your ability of gaining a place at the University of Melbourne.

Applications for Access Melbourne program are made by lodging the online VTAC Special Entry Access Schemes (SEAS) Access and Equity application form. SEAS information booklets are available from: www.vtac.edu.au

More information about the Access Melbourne Program is available from: www.access.unimelb.edu.au

UNIVERSITY SCHOLARSHIPS

The University's Undergraduate Scholarships Program offers one of Australia's most innovative and generous programs for undergraduate students. Information is available from the website: www.services.unimelb.edu.au/scholarships/ugrad/

FACULTY SCHOLARSHIPS

A range of bursaries and scholarships particular to Land and Food Resources are available. Selection and condition information for each of the scholarships is available from: www.landfood.unimelb.edu.au/scholarships/

OPEN DAY

You are invited to visit Dookie Campus on Open Day, held on the last Sunday in August each year. Program details are published on the Dookie Campus website in July. Alternatively, prospective students can contact the Campus and make an appointment to visit during weekdays from 9 am to 4 pm.



EXPERIENCE DOOKIE CAMPUS

Experience Dookie Campus provides the opportunity for potential students and their families to taste the unique experience offered at Dookie Campus. Held in the second week of the September School Holidays (to coincide with both NSW & VIC mid semester break), students in Yr 11 and 12 who aspire to study agriculture at the University of Melbourne may apply to attend this overnight event with one or more family members.

Staying in the dormitory facilities, students and parents participate in a range of activities including information sessions on courses, access programs and scholarships, farm tours and an opportunity to meet current student leaders and academic staff members. There is also opportunity for both parents and students to obtain detailed information about any concerns or queries regarding course content, life at university and living away from home. For an application form to attend Experience Dookie Campus, students should contact their School Principal or Careers Teacher. Alternatively, please contact Dookie Campus on +61 3 5833 9200 or email dookie-info@unimelb.edu.au

ACCOMMODATION AND CAMPUS LIFE

Students at Dookie campus enjoy the benefits of a unique environment offering access to agricultural enterprises, educational facilities and leisure facilities including tennis courts, swimming pool, squash and basketball courts and a fully equipped gymnasium.

Students living in dormitories also have access to recreation lounges (with billiard tables, televisions and DVD/video players), student functions on campus and fully catered meals during week days. Fully equipped kitchens are provided within dormitories for student to prepare their own meals, should they be required.

Students living on campus also have 7 day a week access to the computing facilities during semester. Senior students are appointed as residential advisors after a rigorous selection process. Residential advisors provide support to all students living on campus.

In addition a night supervisor is also employed at the campus to assist students in an emergency and to ensure the safety and security of all residents. Several senior staff members also live on campus and are accessible during an emergency.

Support services are provided at Dookie Campus. This includes a student counsellor and doctor who both visit weekly. Students can also access assistance for academic, personal and financial issues from the Parkville campus.

All first year students living on campus generally occupy one of the three dormitory buildings. Second, third and mature age students

may also elect to share one of the houses or fully furnished six bedroom units available on campus.

The Dookie Student Association facilitates many clubs and activities to meet the interests of students studying at Dookie Campus. Students are most welcome to bring their horses and working dogs to the campus. Accommodation for dogs and horses is available through the Horse club and Working Dog club which are provided by the DSA.

DOOKIE CAMPUS GRADUATE PROFILES:

Living on campus assists students with study, results in lasting friendships and broadens their outlook and understanding. The essence of Dookie Campus is a great friendly environment, strong reputation, enhanced networking opportunities, great interaction of students and friendly professional helpful staff who are always available. It is a rural environment where individuals develop extensive skills and knowledge, lifelong friendships and a sense of place in the world.

"Dookie Campus exceeded my expectations. It has helped to increase my knowledge and experience within the agricultural field, to develop as a person and to make life long friends. The best thing at Dookie was the close relationship with staff and fellow students. The opportunity to work on the farm and the alliance and respect Dookie has within agricultural companies through out Victoria."

Geraldine Torpy
(Bachelor of Agriculture)
2006 Valedictorian
Animal Nutritionist - QAF Feeds

"The Associate Degree in Agriculture prepared me to work in a world where technology is constantly changing. I have practical skills as well as the knowledge and strategic thinking to understand and apply new systems and technologies as they are developed."

Maggie Bridgewater
(Associate Degree in Agriculture), Lecturer & Course Coordinator - National Centre for Dairy Education Australia





"Farming and agriculture offer the chance to study and work in an environment that is both challenging and enjoyable. By studying at the University of Melbourne, Dookie Campus I am able to combine the learning from the classroom with the skills I have developed working on the farm."

Melissa Spain
(Associate Degree in Agriculture),
Articulating student into Bachelor
of Agriculture



"Dookie Campus has a great lifestyle with friends and atmosphere. Contact with lecturers in a country area is one of the reasons I chose to study at Dookie. At Dookie Campus you get more than an education, you get a valuable life experience. The opportunities that Dookie provides are circumspect to none. "

Graeme Talarico
(Bachelor of Agriculture),
Agronomist - WB Hunter



www.dookie.unimelb.edu.au

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