GD-AGSC Graduate Diploma in Agricultural Sciences

Year and Campus:	2016 - Parkville
CRICOS Code:	085100D
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	100 credit points taken over 12 months full time. This course is available as full or part time.
Coordinator:	Dr Ian Bland
Contact:	Prospective students: **http://fvas.unimelb.edu.au/about/contact (http://fvas.unimelb.edu.au/about/contact)** Currently enrolled students: **Contact Stop 1 (http://students.unimelb.edu.au/stop1)**
Course Overview:	Students will be introduced to many of the issues underpinning the advances in food and fibre production within the Australian and International Agriculture sectors. The specialisation core subjects within the Graduate Diploma in Agricultural Sciences cover a range of plant and animal disciplines as well as a focus on current and emerging environmental agricultural and associated industry impacts. Graduates have a foundation in the scientific principles and analytical skills behind improved agricultural production systems and their sustainability. Students undertake interdisciplinary studies in the nature of agricultural crop, food and fibre production and markets at an advanced level. Knowledge and skills are developed in environmental, economic, social and ethical factors related to plant- and animal-derived food and fibre production in Australia and globally. The Graduate Diploma consists of 100 credit points of study and may be undertaken as either full-time over one year or part-time study over two years and will be delivered at the Parkville campus. The program comprises of two core subjects (25 credit points), three specialisation core subjects (37.5 points), and three elective subjects (37.5 credit points). The Graduate Diploma in Agricultural Sciences is a pathway into the Master of Agricultural Sciences.
Learning Outcomes:	Completing this course will: # Enable student to explore the interdisciplinary nature of agricultural crop, food and fibre production and markets at an advanced level # Provide students with a sound foundation in the scientific principles and analytical skills behind improved agricultural production systems and their sustainability # Introduce students to advanced research topics and practical applications within the disciplines of agricultural science # Introduce students to industrial applications of agricultural science and the commercial outcomes # Develop students' critical understanding of environmental, economic, social and ethical factors related to plant and animal-derived food and fibre production in Australia and globally
Course Structure & Available Subjects:	The Graduate Diploma consists of 100 credit points of study. The Graduate Diploma may be undertaken as either full-time over one year, or part-time study over two years, and will be delivered at the Parkville campus. This 100 point program comprises of two core subjects (25 credit points), three specialisation core subjects (37.5 points), and three elective subjects (37.5 credit points).
Subject Options:	Graduate Diploma Subject Options You will be required to complete two core subjects (25 credit points), three specialisation core subjects (37.5 points), and three elective subjects (37.5 credit points) to qualify for this degree. **Degree Core**

You will need to select the following two Degree Core subjects:

Subject	Study Period Commencement:	Credit Points:
FOOD90024 Securing Sufficient and Healthy Food	Semester 1	12.50
AGRI90057 Climate Change:Agric.Impacts&Adaptation	July	12.5

Specialisation Core Subjects

You are required to choose three (37.5 points) subjects from any of the specialisation core subjects. While you are able to select any of the subjects below, it is important if you wish to progress one of the Master of Agricultural Sciences specialisations that you select appropriate discipline core subjects, especially for the Agribusiness specialisation which has pre-requisites within the Masters.

Agribusiness Specialisation Core Subjects:

ARI90013 Financial Management for Agribusiness (This subject is a pre-requisite for AGRI90016 Managing Risk)
AGRI90014 Managing Markets (This subject is a pre-requisite for NRMT90019 Business Strategy)
AGRI90012 Agribusiness Management Economics (This subject is a pre-requisite for AGRI90074 Agricultural & Resource Economics)

Animal Science Specialisation Core Subjects:

DASC90008 Monogastric Science
DASC90010 Dairy Science
DASC90006 Nutrition & Feed Science

Crop Production Specialisation Core Subjects:

AGRI90058 Agronomy & Cropping Systems
HORT90040 Advanced Plant Breeding & Improvement
AGRI90066 Soil Science & Management

Food Security Specialisation Core Subjects:

FOOD90026 The Politics of Food
FOOD90033 Sustainable Food: Policy & Practice
FOOD90034 Sustainable Food Production

Subject	Study Period Commencement:	Credit Points:
AGRI90013 Financial Management for Agribusiness	Semester 1	12.50
AGRI90014 Managing Markets	Semester 2	12.50
AGRI90012 Agribusiness Management Economics	Semester 2	12.50
DASC90008 Monogastric Science	March	12.50
DASC90010 Dairy Systems	August	12.50
DASC90006 Nutrition and Feed Science	September	12.50
AGRI90058 Agronomy & Cropping Systems	Semester 2	12.50
HORT90040 Advanced Plant Breeding and Improvement	Semester 1	12.50
AGRI90066 Soil Science and Management	Semester 1	12.50
FOOD90026 The Politics of Food	Semester 1	12.50
FOOD90033 Sustainable Food: Policy and Practice	Semester 2	12.50

FOOD90034 Sustainable Food Production	Semester 2	12.50

Elective Subjects

You will need to choose three (37.5 points) elective subjects from the list below:

Subject	Study Period Commencement:	Credit Points:
NRMT90017 Leadership	February	12.50
FOOD90028 Sensory Analysis and Practice	February	12.50
EVSC90001 Global Environment and Sustainability	February	12.50
AGRI90066 Soil Science and Management	Semester 1	12.50
DASC90008 Monogastric Science	March	12.50
FOOD90026 The Politics of Food	Semester 1	12.50
NRMT90018 Human Resource Management	Semester 1	12.50
DASC90009 Behaviour of Farm & Companion Animals	May	12.5
DASC90012 Animal Welfare	May	12.50
FOOD90012 Current Issues in Dairy Science	Semester 1	12.50
AGRI90013 Financial Management for Agribusiness	Semester 1	12.50
FOOD90024 Securing Sufficient and Healthy Food	Semester 1	12.50
FOOD90011 Food Biotechnology	Semester 1	12.50
FOOD90028 Sensory Analysis and Practice	February	12.50
ENST90032 Contemporary Environmental Issues C	Semester 1	12.50
SCIE90012 Science Communication	Semester 2	12.50
NRMT90021 Project Management	Semester 2	12.50
AGRI90014 Managing Markets	Semester 2	12.50
AGRI90012 Agribusiness Management Economics	Semester 2	12.50
FOOD90027 Nutrition Politics and Policy	Semester 2	12.50
AGRI90058 Agronomy & Cropping Systems	Semester 2	12.50
DASC90010 Dairy Systems	August	12.50
DASC90006 Nutrition and Feed Science	September	12.50
FOOD90010 Meat and Meat Products	Semester 2	12.50
AGRI90057 Climate Change:Agric.Impacts&Adaptation	July	12.5
NRMT90002 Management of Plant and Animal Invasions	Semester 2	12.50
FOOD90033 Sustainable Food: Policy and Practice	Semester 2	12.50
FRST90033 Farm Trees & Agroforestry	October	12.50
FOOD90035 Plant Food Products	Semester 2	12.5
FOOD90025 Health Aspects in Functional Foods	Not offered 2016	12.5

Entry Requirements:	The Selection Committee will evaluate the applicant's ability to pursue the course successfully using the following criteria: In order to be considered for entry, applicants must have completed: • an undergraduate degree in any discipline with a weighted average mark of least H3 (65%), or equivalent; or • a graduate certificate or graduate diploma in any discipline Meeting this requirement does not guarantee selection. 2. In ranking applications, the Selection Committee will consider prior academic performance. 3. The Selection Committee may seek further information to clarify any aspect of an application in accordance with the Academic Board **Rules (http://about.unimelb.edu.au/__data/assets/pdf_file/0007/1413727/Use-of-Selection-Instruments-Rules-of-the-Acdemic-Board-23-March-2015.pdf)** on the use of selection instruments. 4. Applicants are required to satisfy the university's **English language requirements (http://about.unimelb.edu.au/academicboard/resolutions)** for postgrduate courses. For thoseapplicants seeking to meet these requirements by one of the standard tests approved by the Academic Board, performance **band 6.5 (http://about.unimelb.edu.au/academicboard/resolutions)** is required. ***Note.*** Successful applicants who have completed the Graduate Certificate in Agricultural Sciences may receive up to 50 points credit.
Core Participation Requirements:	The Faculty of Veterinary and Agricultural Sciences (FVAS) welcomes applications from students with disabilities. It is University and Faculty policy to take reasonable steps to make reasonable adjustments so as to enable the student's participation in the Faculty's programs. FVAS contributes to the New Generation degrees and offers a broad range of programs across undergraduate and post-graduate levels many of which adopt a multi-disciplinary approach. Students of the Faculty's courses must possess intellectual, ethical, and emotional capabilities required to participate in the full curriculum and to achieve the levels of competence required by the School. Candidates must have abilities and skills in observation; motor in relevant areas; communication; in conceptual, integrative, and quantitative dimensions; and in behavioural and social dimensions. Adjustments can be provided to minimise the impact of a disability, however students need to be able to participate in the program in an independent manner and with regard to their safety and the safety of others. I. Observation: In some contexts, the student must be able to observe demonstrations and experiments in the basic and applied sciences. More broadly, observation requires reading text, diagrams, maps, drawings and numerical data. The candidate should be able to observe details at a number of scales and record useful observations in discipline dependant contexts. II. Communication: A candidate should be able to communicate with fellow students, professional and academic staff, members of relevant professions and the public. A candidate must be able to communicate effectively and sensitively. Communication includes not only speech but also reading and writing. III. Motor: Candidates should have sufficient motor function necessary for participation in the inherent discipline-related activities. The practical work, design work, field work, diagnostic procedures, laboratory tests, require varying motor movement abilities. Off campus investigations may include visits to construction sites, urban, rural and/or remote environments. IV. Intellectual-Conceptual, Integrative and Quantitative Abilities: These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem solving, the critical skill demanded of professionals in land and environment industries, requires all of these intellectual abilities. In addition, the candidate should be able to comprehend three-dimensional relationships and to understand the spatial relationships of structures. V. Behavioural and Social Attributes: A candidate must possess behavioural and social attributes that enable them to participate in a complex learning environment. Students are required to take responsibility for their own participation and learning. They also contribute to the learning of other students in collaborative learning environments, demonstrating interpersonal skills and an understanding of the needs of other students. Assessment may include the outcomes of tasks completed in collaboration with other students. Students who feel their disability will prevent them from meeting the above academic requirements are encouraged to contact the Disability Liaison Unit.
Further Study:	Students can progress to the Master of Agricultural Sciences.
Graduate Attributes:	Graduates from the Postgraduate Diploma program will possess attributes that will ensure they can either find employment in the public or private sectors related to a wide range of agricultural production, environmental, economics, bioresearch and service industries, and community

	organisations concerned with public good, or continue into further postgraduate programs of study.
Generic Skills:	In this course, students will: # Be able to demonstrate knowledge and skills in the interdisciplinary field of agricultural science # Develop an understanding of problem solving and research methodologies and demonstrate personal accountability by applying solutions to diverse challenges facing agricultural systems, and # Investigate and apply innovative approaches to the contemporary, interdisciplinary management of commercial agricultural systems
Notes:	In accordance with the University's **Assessment Procedure (http://policy.unimelb.edu.au/MPF1026)** (MPF1026), Examiners may offer reassessment (as a second attempt at passing a subject for a borderline failure in a single subject) to a student enrolled in this course. A borderline failure is defined as a mark of 45% or more.