

026AA Postgraduate Diploma in Agricultural Science

Year and Campus:	2012 - Parkville																						
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:	<p>Melbourne School of Land & Environment Student Centre Ground Floor, Land & Food Resources (building 142)</p> <p><i>Enquiries</i> Phone: 13 MELB (13 6352) Email: 13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au)</p>																						
Course Overview:	<p>The Postgraduate Diploma consists of 100 credit points of study at level 400 and above and is an exit point within the Master of Agricultural Science. The Postgraduate 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. International students may only enrol in the course on a full-time basis. The program comprises of 6 core subjects (75 credit points), and 2 elective subjects (25 credit points). These cover a range of plant and animal disciplines as well as a focus on current and emerging environmental agricultural and associated industry impacts.</p> <p>The Postgraduate Diploma in Agricultural Science is nested within the first year of the Master of Agricultural Science.</p>																						
Objectives:	<p>Student who complete this course will achieve the following course objectives:</p> <ul style="list-style-type: none"> # to enable student to explore the interdisciplinary nature of agricultural crop, food and fibre production and markets at an advanced level; # to provide students with a sound foundation in the scientific principles and analytical skills behind improved agricultural production systems and their sustainability; # to introduce students to advanced research topics and practical applications within the disciplines of agricultural science; # to introduce students to industrial applications of agricultural science and the commercial outcomes; # to develop a 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:	Core & Elective Subjects																						
Majors/Minors/ Specialisations	Agricultural Science																						
Subject Options:	<p>Core Subjects</p> <p>Students must complete 75 credit points of core subjects below:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>AGRI90066 Soil Science and Management</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>DASC90008 Monogastric Science</td> <td>March</td> <td>12.50</td> </tr> <tr> <td>AGRI90058 Agronomy & Cropping Systems</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>FOOD90024 Securing Sufficient and Healthy Food</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>AGRI90057 Climate Change:Agri.C.Impacts&Adaptation</td> <td>June, September</td> <td>12.50</td> </tr> <tr> <td>HORT90040 Advanced Plant Breeding and Improvement</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>		Subject	Study Period Commencement:	Credit Points:	AGRI90066 Soil Science and Management	Semester 1	12.50	DASC90008 Monogastric Science	March	12.50	AGRI90058 Agronomy & Cropping Systems	Semester 2	12.50	FOOD90024 Securing Sufficient and Healthy Food	Semester 2	12.50	AGRI90057 Climate Change:Agri.C.Impacts&Adaptation	June, September	12.50	HORT90040 Advanced Plant Breeding and Improvement	Semester 1	12.50
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Electives

Students must complete 25 points of electives below:

Subject	Study Period Commencement:	Credit Points:
AGRI90013 Financial Management for Agribusiness	September	12.50
AGRI90012 Agribusiness Management Economics	April	12.50
AGRI90039 Australian Wine - A World Perspective	Not offered 2012	12.50
NRMT90019 Business Strategy	February	12.50
FOOD90009 Cereal, Legume and Oilseed Technology	Semester 1	12.50
AGRI90030 Concepts in Viticulture and Wine Science	February	12.50
FOOD90012 Current Issues in Dairy Science	Semester 1	12.50
DASC90010 Dairy Systems	October	12.50
FRST90033 Farm Trees & Agroforestry	November	12.50
FOOD90011 Food Biotechnology	Semester 1	12.50
AGRI90019 Fruit and Vegetable Technology	Not offered 2012	12.50
GEOG90006 Fundamentals & Management of GIS	Not offered 2012	12.50
DASC90011 Genetics and Animal Breeding	Not offered 2012	12.50
EVSC90001 Global Environment and Sustainability	February	12.50
MGMT90018 Psychology of HR Practice	Semester 1, Semester 2	12.50
NRMT90018 Human Resource Management	April	12.50
NRMT90017 Leadership	February	12.50
NRMT90002 Management of Plant and Animal Invasions	Semester 2	12.50
AGRI90014 Managing Markets	June	12.50
FOOD90010 Meat and Meat Products Technology	Not offered 2012	12.50
DASC90006 Nutrition and Feed Science	August	12.50
AGRI90017 Operations and Decision-making	September	12.50
NRMT90021 Project Management	June	12.50
AGRI90075 Research Methods For Life Sciences	Semester 1	12.50
MAST90008 Research Philosophies & Statistics	Semester 1	12.50
NRMT90003 Social Research Methods	Semester 1	12.50

Entry Requirements:

The Selection Committee will evaluate the applicant's ability to pursue the course successfully using the following criteria:

- # an undergraduate degree with at least H3 (65%) average in the final year, or a graduate or postgraduate certificate in any discipline with at least H3 (65%) average, or a graduate or postgraduate diploma in any discipline, with at least H3 (65%) average, or an honours degree in any discipline, or equivalent; and
- # a curriculum vitae or resume; and
- # two academic referee reports; and

	<p># a personal statement of up to 500 words.</p> <p>2. The Selection Committee may conduct interviews and tests and may call for further referee reports or employer references to elucidate any of the matters referred to above. Note. Up to 100 points of advanced standing in Master of Agricultural Science may be awarded for the completion of a relevant honours degree or a Postgraduate Diploma in Agricultural Science or equivalent.</p>
<p>Core Participation Requirements:</p>	<p>The Melbourne School of Land and Environment (MSLE) welcomes applications from students with disabilities. It is University and School policy to take reasonable steps to make reasonable adjustments so as to enable the student's participation in the School's programs. MSLE 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 School'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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<p>Graduate Attributes:</p>	<p>Graduate in 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.</p>
<p>Generic Skills:</p>	<p>This course encompasses particular generic skills. On completion of the course students should have:</p> <ul style="list-style-type: none"> # A profound respect for truth, intellectual and professional integrity, and the ethics of scholarship # Capacity for independent critical thought, rational inquiry and self-directed learning and research # An ability to derive, interpret and analyse social, technical or economic information from primary and other sources # Awareness of and ability to utilise appropriate communication technology and methods for the storage, management and analysis of data # Capacity for creativity and innovation, through the application of skills and knowledge # Ability to integrate information across a relevant discipline to solve problems in applied situations # Highly developed computer - based skills to allow for effective on-line learning and communication.

	<ul style="list-style-type: none"># Highly developed written communication skills to allow informed dialogue with individuals and groups from industry, government and the community# Highly developed oral communication skills to allow informed dialogue and liaison with individuals and groups from industry, government and the community.# Appreciation of social and cultural diversity from a regional to a global context# Ability to participate effectively as a member of a team# Ability to plan work, use time effectively and manage small projects
Links to further information:	http://www.land-environment.unimelb.edu.au/agscience/