

## 026AA Postgraduate Diploma in Agricultural Science

<b>Year and Campus:</b>	2011 - Parkville																										
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>																										
<b>Level:</b>	Graduate/Postgraduate																										
<b>Duration &amp; Credit Points:</b>	100 credit points taken over 12 months full time. This course is available as full or part time.																										
<b>Coordinator:</b>	Dr Ian Bland																										
<b>Contact:</b>	<p><b>Melbourne School of Land &amp; Environment Student Centre</b> Ground Floor, Land &amp; Food Resources (building 142)</p> <p><i>Enquiries</i> Phone: 13 MELB (13 6352) Email: <a href="mailto:13MELB@unimelb.edu.au">13MELB@unimelb.edu.au</a> (<a href="mailto:13MELB@unimelb.edu.au">mailto:13MELB@unimelb.edu.au</a>)</p>																										
<b>Course Overview:</b>	<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 eight coursework subjects (12.5 points each), seven core subjects and one selective subject. These cover a range of plant and animal disciplines as well as a focus on current and emerging environmental agricultural and associated industry impacts. The Postgraduate Diploma in Agricultural Science is nested within the first year of the Master of Agricultural Science.</p>																										
<b>Objectives:</b>	<p>Student who complete this course will achieve the following course objectives:</p> <ul style="list-style-type: none"> <li># to enable student to explore the interdisciplinary nature of agricultural crop, food and fibre production and markets at an advanced level;</li> <li># to provide students with a sound foundation in the scientific principles and analytical skills behind improved agricultural production systems and their sustainability;</li> <li># to introduce students to advanced research topics and practical applications within the disciplines of agricultural science;</li> <li># to introduce students to industrial applications of agricultural science and the commercial outcomes;</li> <li># 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.</li> </ul>																										
<b>Course Structure &amp; Available Subjects:</b>	Core & Selective Subjects																										
<b>Majors/Minors/Specialisations</b>	Postgraduate Diploma in Agricultural Science																										
<b>Subject Options:</b>	<p><b>Core Subjects</b></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>Not offered 2011</td> <td>12.50</td> </tr> <tr> <td>HORT40001 Advanced Plant Breeding and Improvement</td> <td>Not offered 2011</td> <td>12.50</td> </tr> <tr> <td>DASC90008 Monogastric Science</td> <td>March</td> <td>12.50</td> </tr> <tr> <td>AGRI90058 Agronomy &amp; Cropping Systems</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>NRMT40001 Emerging Issues in Land Resources</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>FOOD90024 Disease Management and Food Security</td> <td>Not offered 2011</td> <td>12.50</td> </tr> <tr> <td>DASC90010 Dairy Systems</td> <td>October</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	AGRI90066 Soil Science and Management	Not offered 2011	12.50	HORT40001 Advanced Plant Breeding and Improvement	Not offered 2011	12.50	DASC90008 Monogastric Science	March	12.50	AGRI90058 Agronomy & Cropping Systems	Semester 2	12.50	NRMT40001 Emerging Issues in Land Resources	Semester 2	12.50	FOOD90024 Disease Management and Food Security	Not offered 2011	12.50	DASC90010 Dairy Systems	October	12.50
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**Selective Subjects**

Please select one of the following subjects:

Subject	Study Period Commencement:	Credit Points:
MAST90008 Research Philosophies & Statistics	Semester 1	12.50
NRMT90003 Social Research Methods	March	12.50

**Entry Requirements:**

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

- # An honours degree or equivalent qualification; or
- # An undergraduate tertiary qualification with a weighted average of 65% or better in the final year of study; or
- # Successful completion of a Graduate/Postgraduate Diploma with a weighted average of 65% or better.

**Core Participation Requirements:**

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.

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.

**Graduate Attributes:**

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.

**Generic Skills:**

This course encompasses particular generic skills. On completion of the course students should have:

- # 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.
- # 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