

## MC-ANISCI Master of Animal Science

<b>Year and Campus:</b>	2013 - Parkville
<b>CRICOS Code:</b>	064717M
<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>	200 credit points taken over 24 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, Melbourne School of Land and Environment (building 142)</p> <p><i>Current Student 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> <p><b>Future Student Enquiries</b> (<a href="https://nexus.unimelb.edu.au/NexusEnquiryForm.aspx?f=16755909770&amp;m=573578&amp;l=0&amp;programcode=K07&amp;sub=RE:%20RE:%20Animal%20Science&amp;enquirytype=2">https://nexus.unimelb.edu.au/NexusEnquiryForm.aspx?f=16755909770&amp;m=573578&amp;l=0&amp;programcode=K07&amp;sub=RE:%20RE:%20Animal%20Science&amp;enquirytype=2</a>)</p>
<b>Course Overview:</b>	<p>Candidates will graduate with an excellent understanding of the many factors underpinning animal systems and an awareness of methods for sustainable food and fibre production and their markets. The aims of the Masters of Animal Science (coursework) are to further develop an understanding of the biology of domestic and captive animals, their care, management and use as a resource for food, fibre, recreation and companionship; to develop an in-depth knowledge of the biology of animals, the complexities of the ethical and moral issues encompassing care, management and use as a resource will be examined in light of advances in human endeavour. The masters will allow a degree of specialisation based around analysis of animal systems management of a chosen species or classification of animals. The course design comprises theory and technology applications, with a focus on improving current cropping and animal production systems for increased product yields and qualities within Australian and International environments.</p> <p>Animal science masters also comprises many existing and novel emerging areas in the animal and associated sciences, aimed to create opportunities for advances in the manipulation of biological systems for increased productivity. The scientific tools and advances are evolving fast and are being directly applied to food and fibre industries worldwide.</p>
<b>Objectives:</b>	<p>The objectives of this course are to:</p> <ul style="list-style-type: none"> <li># enable students to explore the interdisciplinary nature of animal science at an advanced level</li> <li># provide students with a sound foundation in the scientific principles and analytical skills behind improved animal systems (farm and companion animals) and their sustainability</li> <li># introduce the student to advanced research topics and practical applications within the disciplines of animal science</li> <li># develop competence in the design, conduct and analysis of experimental work</li> <li># introduce students to industrial applications of animal science and the commercial outcomes</li> <li># develop a critical understanding of environmental, economic, social and ethical factors related to animal-derived food and fibre production in Australia and globally.</li> </ul>
<b>Course Structure &amp; Available Subjects:</b>	<p>The Master of Animal Science (coursework) consists of 200 credit points of study at level 400 and above. The Master course may be undertaken as either full time study over two years or part time study over four years and will be delivered at the Parkville campus. International students may only enrol in the course on a full time basis.</p> <p>The program comprises of 75 credit points of Core subjects, 25 credit points of Professional Toolbox subjects, a minimum of 25 credit points of Research Project and a minimum of 25 credit points of discipline electives.</p>

<b>Majors/Minors/ Specialisations</b>	Master of Animal Science																																																																				
<b>Subject Options:</b>	<p><b>Core Subjects</b> Students must complete all of the following subjects:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>DASC90008 Monogastric Science</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>DASC90007 Stress Physiology</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>DASC90010 Dairy Systems</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>DASC90006 Nutrition and Feed Science</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>FOOD90024 Securing Sufficient and Healthy Food</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>AGRI90057 Climate Change:Agri.Impacts&amp;Adaptation</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table> <p><b>Professional Toolbox</b> Students must complete 25 points of Professional Toolbox subjects (12.5 points from Science Tools and 12.5 points from Business Tools or Scientific Communication)</p> <p><b>Science Tools</b> Students must complete one of the following:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MAST90008 Research Philosophies &amp; 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AGRI90070 Project A	Not offered 2013	25
AGRI90065 Project B	Semester 2	25
AGRI90072 Project B	Not offered 2013	50

### Discipline Electives

Students must complete a minimum of 25 points of the following:

Subject	Study Period Commencement:	Credit Points:
DASC90009 Behaviour of Farm & Companion Animals	Not offered 2013	12.50
DASC90011 Genetics and Animal Breeding	Not offered 2013	12.50
DASC90012 Animal Welfare	October	12.50
FOOD90012 Current Issues in Dairy Science	Semester 1	12.50
FOOD90010 Meat and Meat ProductsTechnology	Not offered 2013	12.50

### Other Electives

Subject	Study Period Commencement:	Credit Points:
FOOD90011 Food Biotechnology	Not offered 2013	12.50
NRMT90002 Management of Plant and Animal Invasions	Not offered 2013	12.50
EVSC90001 Global Environment and Sustainability	Not offered 2013	12.50
AGRI90014 Managing Markets	Not offered 2013	12.50
AGRI90012 Agribusiness Management Economics	Not offered 2013	12.50
MGMT90018 Psychology of HR Practice	Semester 2	12.50
AGRI90017 Operations and Decision-making	Not offered 2013	12.50
NRMT90019 Business Strategy	Not offered 2013	12.50
ENST90022 Contemporary Environmental Issues A	Semester 1	12.50

#### Entry Requirements:

1. 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
- # a personal statement of up to 500 words.

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 Animal Science may be awarded for the completion of a relevant honours degree or a Postgraduate Diploma in Animal Science or equivalent.

#### 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

	<p>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.</p>
<b>Further Study:</b>	There is a clear progression pathway from masters by coursework programme to PhD.
<b>Graduate Attributes:</b>	The graduates from the Master of Animal Science (coursework) will have achieved academic excellence in their chosen field(s) of study. They will possess in-depth knowledge in those fields(s) and have been equipped with all necessary tools and skills to become leaders at both national and global levels.
<b>Generic Skills:</b>	<ul style="list-style-type: none"> <li># A profound respect for truth, intellectual and professional integrity, and the ethics of scholarship</li> <li># Capacity for independent critical thought, rational inquiry and self-directed learning and research</li> <li># An ability to derive, interpret and analyse social, technical or economic information from primary and other sources</li> <li># Awareness of and ability to utilise appropriate communication technology and methods for the storage, management and analysis of data</li> <li># Capacity for creativity and innovation, through the application of skills and knowledge</li> <li># Ability to integrate information across a relevant discipline to solve problems in applied situations</li> <li># Highly developed computer - based skills to allow for effective on-line learning and communication.</li> <li># Highly developed written communication skills to allow informed dialogue with individuals and groups from industry, government and the community</li> <li># Highly developed oral communication skills to allow informed dialogue and liaison with individuals and groups from industry, government and the community.</li> <li># Appreciation of social and cultural diversity from a regional to a global context</li> <li># Ability to participate effectively as a member of a team</li> <li># Ability to plan work, use time effectively and manage small projects</li> </ul>
<b>Links to further information:</b>	<a href="http://www.land-environment.unimelb.edu.au/animalscience/">http://www.land-environment.unimelb.edu.au/animalscience/</a>