

## AGRI30030 Livestock Production Systems

<b>Credit Points:</b>	12.5																		
<b>Level:</b>	3 (Undergraduate)																		
<b>Dates &amp; Locations:</b>	2016, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.																		
<b>Time Commitment:</b>	Contact Hours: 24 hours of lectures and up to 36 hours of practicals Total Time Commitment: 170 hours																		
<b>Prerequisites:</b>	None																		
<b>Corequisites:</b>	None																		
<b>Recommended Background Knowledge:</b>	A physiology or nutrition subject at level 2 such as: <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>DASC20012 Comparative Nutrition and Digestion</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>DASC20010 Applied Animal Physiology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>DASC20011 Companion Animal Biology</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>DASC20013 Topics in Animal Health</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>ECOL20003 Ecology</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	DASC20012 Comparative Nutrition and Digestion	Semester 1	12.50	DASC20010 Applied Animal Physiology	Semester 2	12.50	DASC20011 Companion Animal Biology	Semester 1	12.50	DASC20013 Topics in Animal Health	Semester 2	12.50	ECOL20003 Ecology	Semester 2	12.50
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<b>Non Allowed Subjects:</b>	None																		
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.&lt;/p&gt; &lt;p&gt;It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p>																		
<b>Coordinator:</b>	Dr Brendan Cullen																		
<b>Contact:</b>	Email: <a href="mailto:bcullen@unimelb.edu.au">bcullen@unimelb.edu.au</a> (mailto:bcullen@unimelb.edu.au)																		
<b>Subject Overview:</b>	<p>This subject aims to provide an introduction to the principles and practices in effective operation and improvement of the major livestock industries in Australia. This subject will cover:</p> <ul style="list-style-type: none"> <li># The major livestock industries in terms of size, distribution and value</li> <li># Factors that determine the location of the different industries in southern Australia</li> <li># Basic annual and seasonal cycles of production</li> <li># The feedbase for ruminant and non-ruminant industries</li> <li># Basic inputs and outputs, i.e. the roles of genetics, environment, nutrition, reproductive efficiency and health in setting the opportunities and constraints</li> <li># Practices that influence profitability, environmental impact</li> <li># Product quality</li> <li># New and emerging animal industries</li> </ul>																		

	# Current and future issues affecting industry development, e.g. welfare and human health concerns
<b>Learning Outcomes:</b>	<p>On completion of this subject, students should be:</p> <ul style="list-style-type: none"> <li># Aware of all the major inputs and products of an animal production system, for a range of animal industries</li> <li># Able to understand the effects of changes in inputs and/or outputs on the efficiency of the production system</li> <li># Analyse animal production systems in terms of their biological efficiency, and identify ways of improving their efficiency</li> <li># Apply scientific principles of growth, reproduction and breeding of animals to the design and management of livestock production systems</li> <li># Apply skills in problem solving to practical situations</li> </ul>
<b>Assessment:</b>	One 750 word field trip report due in Week 6 worth 15% One 750 word field trip report due in Week 12 worth 20% One 500 word feed budget assignment due in Week 8 worth 15% A two-hour exam to be held in the end-of-semester exam period worth 50%
<b>Prescribed Texts:</b>	Information Not Available
<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2016/B-ARTS">https://handbook.unimelb.edu.au/view/2016/B-ARTS</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2016/B-COM">https://handbook.unimelb.edu.au/view/2016/B-COM</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2016/B-ENVS">https://handbook.unimelb.edu.au/view/2016/B-ENVS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2016/B-MUS">https://handbook.unimelb.edu.au/view/2016/B-MUS</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
<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>Generic Skills:</b>	<ul style="list-style-type: none"> <li># On completion of the subject the students should have developed the following generic skills: Academic excellence, greater in-depth understanding of scientific understanding of the humane care, and efficient management of farm animals</li> <li># The student's flexibility and level of transferable skills should be enhanced though improved time management and enhanced ability to communicate their ideas effectively in both written and verbal formats</li> </ul>
<b>Related Majors/Minors/Specialisations:</b>	<p>Agricultural Economics  Agricultural Science  Animal Disease Biotechnology (specialisation of Animal Health and Disease major)  Animal Science and Management  Plant and Soil Science  Science-credited subjects - new generation B-SCI and B-ENG.  Selective subjects for B-BMED  Sustainable Production</p>