

## 202-503 Animal Feed Science

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	2009, This subject commences in the following study period/s: August, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 30 Total Time Commitment: 120 hours
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	Knowledge and understanding of Microsoft Excel for modelling exercises; training provided in GRAZFEED NRC formulation packages; GRASSGROW Access to LMS required for simulation models
<b>Coordinator:</b>	Assoc Prof Julian Hill
<b>Contact:</b>	msle-pgcoursework.unimelb.edu.au
<b>Subject Overview:</b>	The subject examines the applications of new technologies in processing and analysis of feeds for a range of animal species. The subject will introduce empirical, mechanistic and telemetric models to evaluate animal performance under different dietary regimes. Furthermore, the implications of feed composition and evaluation on mechanistic modeling of nutrient uptake and utilization by the animal will be assessed. The modeling procedures will also be used to evaluate wastage of C and N in animal production systems with special emphasis on the losses of C as methane and N as ammonia and nitrous oxides.
<b>Assessment:</b>	Simulation modelling of animal feeding systems (2x 2500 word reports plus simulation model outputs: 60%). Examination 2 hours - 40%
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<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>	On completion of this subject, students should have developed the following generic skills: academic excellence; greater in-depth understanding of scientific disciplines of animal nutrition. The study will develop critical thinking and analysis; and problem solving. Flexibility and level of transferable skills should be enhanced though improved ability to communicate ideas effectively in both written and verbal formats.
<b>Related Course(s):</b>	Master of Animal Science Postgraduate Diploma in Animal Science and Management