202-252 Quantitative Skills for Land and Food

Credit Points:	12.50
Level:	2 (Undergraduate)
Time Commitment:	Contact Hours: The subject will be delivered by distance mode. Content is equivalent to 72 hours teaching Total Time Commitment: Not available
Prerequisites:	At least 100 credit points completed at advanced diploma level.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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. 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: http://services.unimelb.edu.au/disability
Subject Overview:	This subject will introduce and apply mathematical concepts and skills needed to solve problems in land and food resources contexts. It provides a foundation for 202-107 Mathematics for Land and Food Resources. Topic areas include: # geometry and trigonometry, measurement of area and volume, Pythagoras' theorem; # number patterns, ratio and proportion, arithmetic and geometric sequences, calculations using ratios; # data analysis: data displays and numerical summaries, estimation, straight line graphs, correlation and regression; # probability: definitions and axioms, simple and compound events, Venn and tree diagrams, independent and mutually exclusive events, normal distributions; # graphs and functions: graphs of simple polynomial, exponential, logarithmic and trigonometric functions and their transformations, domains and ranges, function notation; # algebra and equations: substitution and transposition of formulas, expansion and factorisation, linear and quadratic equations, simultaneous linear equations in two unknowns, index laws and equations; and # rates of change: constant and variable rates of change, gradient as a measure of rate, definition and notation of derivatives, derivatives of simple polynomials, average and instantaneous rates of change.
Assessment:	Assignments and projects throughout the subject (60%), a 2-hour final examination (40%).
Prescribed Texts:	None
Recommended Texts:	Information Not Available
Breadth Options:	This subject is not available as a breadth subject.

Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Information Not Available
Notes:	Enrolment into this subject by application only. Please contact Louisa King at **kingl@unimelb.edu.au (mailto:kingl@unimelb.edu.au)** . Students with a pass in Year 12 VCE Mathematics (other than those with a study score of 25-29 in Year 12 VCE Further Mathematics) need the permission of their course coordinator before enrolling in this subject.
Related Course(s):	Associate Degree in Wood Products Management