MAST10015 Foundation Mathematics for Commerce 2

Credit Points:	12.50
Level:	1 (Undergraduate)
Dates & Locations:	This subject is not offered in 2013.
Time Commitment:	Contact Hours: A 1-hour lecture and a 2-hour tutorial per week Total Time Commitment: Total expected time commitment is 108-hours across the semester, including class time.
Prerequisites:	None

Subject	Study Period Commencement:	Credit Points:
MAST10014 Foundation Mathematics for Commerce 1	Not offered 2013	12.50

Corequisites:	None
Recommended Background Knowledge:	High school mathematics up to a year 10 standard or equivalent.
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 Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Contact:	Mr David Collis **collisd@unimelb.edu.au (mailto:collisd@unimelb.edu.au)**
Subject Overview:	This is the second of a sequence of two subjects (Foundation Mathematics for Commerce 1 and Foundation Mathematics for Commerce 2) providing BA Extended students with a foundation in mathematics that provides a pathway into the Bachelor of Commerce. The content consists of traditional VCE mathematical topics, with a particular emphasis on those topics needed for subsequent studies in the Bachelor of Commerce degree.
Objectives:	On completion of the subject students should have: # the ability to use differential calculus; by expanding on the concept of a derivate; by exploring continuity, differentiability, the product, quotient and chain rules for differentiation, and the use of differentiation to solve rates of change problems and linear approximations; # the ability to use basic integral calculus including antidifferentiation; and be able to find the area beneath a curve and between two curves, solve infinite limits, and perform integration to infinity; # the ability to use basic statistics for different types of variables, including measures of location (median and mode) and spread (range, variance and standard deviation), and be able to present statistical data using charts and tables (using Excel); # an understanding of the basic concepts in probability, including the addition and multiplication rules, and be able to use various methods for representing probabilities, conditional probability, and an introduction to counting methods (permutations and combinations); # an understanding of the concept and uses of probability distributions, including discrete probability distributions (eg. the binomial), and continuous probability distributions (the normal). It also introduces of expected value and standard deviation as ways of interpreting real world situations and solving real world problems.
Assessment:	Two in-class tests (15% each), a statistical research project (30%), an end of semester examination (30%), participation (10%). This subject has a minimum hurdle requirement of 75%

	attendance and regular participation in tutorials. In-class tasks missed without approval will not be marked. All assessment must be completed in order to pass this subject.
Prescribed Texts:	A book of lecture notes will be provided.
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:	# High level of development: numeracy, further abstract reasoning skills modelling real world phenomena; statistical representation and presentation; critical literacy to interpret statistical claims self-directed research; # Moderate level of development: written communication; creative problem solving skills; use of computer to generate charts and graphs of statistical data; # Some level of development: collaborative leaning; independent thinking.
Notes:	This subject is only available to BA Extended students.
Related Course(s):	Bachelor of Arts (Extended)