



## Course Outline 2017

### BUSADMIN 763: Quantitative Analysis (15 points)

#### Quarter 4 (1178)

---

#### Course Prescription

Quantitative analysis theory, techniques, and tools to support and facilitate managerial decision-making. Includes financial, statistical, and operational modelling.

#### Programme and Course Advice

*Restriction: BUSADMIN 773*

#### Goals of the Course

To provide a firm foundation for the quantitative aspects of all courses within the Graduate School of Enterprise that use quantitative methods.

- Apply quantitative thinking to successfully compete in today's global business environment.
- Recognise and formulate decision models and methods for a quantitative analysis of data in a variety of management scenarios.

#### Learning Outcomes

By the end of this course, it is expected that the student will be able to:

1. demonstrate the skills necessary for the analysis of small to medium data sets of moderate complexity;
2. extract the important patterns from sets of data, transform them into information and display the results effectively;
3. apply modelling and analysis approaches for people and organisations;
4. demonstrate analytical thinking skills and an understanding of the concepts, tools and practices of modelling and analysing managerial decisions; and
5. apply a variety of quantitative methods to business problems.

#### Content Outline

Week 1:	Introduction to quantitative analysis
Week 2:	Point Estimation; Hypothesis testing
Week 3:	Introduction to Regression
Week 4:	Multiple Regression
Week 5:	<b>Test 1</b>
Week 6:	Multiple regression; Introduction to Optimisation
Week 7:	Graphical and Algebraic solutions
Week 8:	Sensitivity Analysis
Week 9:	Optimisation Problem Solving
Week 10:	<b>Assignment Due</b>
Week 11:	<b>Test 2</b>

## Learning and Teaching

The use of laptop computers is encouraged during the lectures and will be required for the two tests. The preferred software on the laptop is Excel 2010. Instructions to download and install this on your own computers will be provided in class. During lectures (but not the tests) you may share laptop computers with other students if you so desire.

The average workload for the course is expected to be 2 – 3 hours for every hour of class contact time. To make the class more valuable, you should have read and thought through the material assigned in the content outline given above.

All lectures will be interactive in nature with elements of group work and a high degree of personal involvement and contributions – “class participation” – will be expected of all enrolled.

Tutorials to provide problem based learning will be scheduled for this course. The meeting times will be announced in class. Attendance is optional.

## Teaching Staff

**Dr Anson Li**

Email: akt.li@auckland.ac.nz

## Learning Resources

The **optional (not compulsory)** text is Curwin, J. & Slater, R. (2013). *Quantitative Methods for Business Decisions* (7<sup>th</sup> ed.). London: Thomson. The course is based on course material available in this text book.

## Assessment

Assessment Type	Final Grade Weight %	Exact Date	Conditions	Duration
Assignment	30%	End of Week 10	Individual	-
Test 1	35%	Wednesday, 11/10/2017	Individual	2 hours
Test 2	35%	Tuesday, 21/11/2017	Individual	2 hours
Total	100 %			

Further information about these assessments will be provided on Canvas.

The broad relationship between these assessments and the course learning outcomes is as follows:

Learning	Assignment	Test 1	Test 2
1	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
5		X	X

## **INCLUSIVE LEARNING**

Students are urged to discuss privately any impairment-related requirements face- to-face and/or in written form with the course convenor/lecturer and/or tutor.

## **STUDENT FEEDBACK**

This course undergoes continuous updates and improvements based on both formal and informal feedbacks from the class. Updates in class material and course assessments have been implemented accordingly for each quarter. Current students are encouraged to provide timely feedback during the progression of the course. A formal class feedback survey will be facilitated towards the end of the quarter.

## **In the Event of an Unexpected Disruption**

We undertake to maintain the continuity and standard of teaching and learning in all your courses throughout the year. If there are unexpected disruptions the University has contingency plans to ensure that access to your course continues and your assessment is fair, and not compromised. Some adjustments may need to be made in emergencies. In the event of a disruption, the University and your course coordinators will make every effort to provide you with up to date information via canvas and the university web site.

## **CHEATING AND PLAGIARISM**

The University of Auckland regards cheating as a serious academic offence.

Plagiarism is a form of cheating. In coursework assignments submitted for marking, plagiarism can occur if you use the work and ideas of others without explicit acknowledgment. Work can be plagiarised from many sources, including books, journal articles, the internet, and other students' assignments. A student's assessed work may be reviewed against electronic source material using computerised detection mechanisms. Upon reasonable request, students may be required to provide an electronic version of their work for computerised review.

The way of avoiding plagiarism is to reference your work properly. If you are in doubt about how to reference properly, ask someone – your lecturers, tutors and the Student Learning Centre are good places to start. Please refer to the following website for further information about academic referencing: [www.cite.auckland.ac.nz/](http://www.cite.auckland.ac.nz/)

The document Guidelines: Conduct of Coursework provides further advice on how to avoid plagiarism. It can be found at:  
[www.business.auckland.ac.nz/conductcoursework](http://www.business.auckland.ac.nz/conductcoursework)

The penalties for plagiarism can be severe, including losing some or all of the marks for the assignment. Major offences can be sent to the University's Discipline Committee, where further penalties can be imposed.