



DIVISION OF ECONOMIC AND FINANCIAL STUDIES

GRADUATE ACCOUNTING  
AND COMMERCE CENTRE

*STAT888 APPLIED BUSINESS TECHNIQUES*

FIRST SEMESTER 2005

UNIT OUTLINE

Student Resource Centre  
Division of Economic & Financial Studies  
MACQUARIE UNIVERSITY  
**Unit Convenor: Kj Byun**

Students in this unit should read this unit outline carefully at the start of semester. It contains important information about the unit. If anything in it is unclear, please consult one of the teaching staff in the unit.



## LECTURE SCHEDULE (D1 2005)

<i>Week</i>	<i>Date</i>	<i>Topic</i>	<i>Lecturer</i>	<i>Chap.</i>
1	2 March	Sampling Use of computers Descriptive Statistics	Kj	1.1 – 1.7
2	9 March	Estimation Confidence Intervals Discrete Distributions Expected Values Binomial and Poisson	Kj	2.8 2.9 2.10 2.13
3	16 March	Simulation Random Numbers Monte Carlo techniques	Kj	15.1. – 15.10
4	23 March	Project Planning Arrow diagrams Gantt Chart Microsoft Project 2000/2003	Kj	13.1. – 13.4
5	30 March	Critical Path Method (CPM) Program Evaluation and Review Technique (PERT)	Kj	13.1. – 13.4 Appendix 13.1
6	6 April	<i>Mid Semester Test (Topics from Week 1 – Week 5)</i>		
7	13 April	Linear programming assumptions Formulation of problems Graphical solutions	Tarn	7.1 – 7.6 7.4
Mid Semester Break				
8	4 May	Linear and integer programming Special cases The simplex method Integer programming	Tarn	7.7
9	11 May	Linear and integer programming Sensitivity and duality Business applications	Tarn	8.1 – 8.8 7.8
10	18 May	Inventory systems Economic Order quantity Reorder point (lead time) Quantity discount model	Tarn	6.1 – 6.7 Appendix 6.1
11	25 May	Queuing systems Simple queues Multiple –channel queues Restricted queues	Tarn	14.1 -14.6 Appendix 14.1
12	1 June	Revision Lecture Course Summary	Kj & Tarn	All topics
13	8 June	FINAL EXAMINATION (During lecture time)		

A4 size on which you may write or type anything you like on **both sides**. No other notes or books are allowed.

The University Examination period in First Half Year 2005 is from 15<sup>th</sup> – 29<sup>th</sup> June. You are expected to present yourself for examination at the time and place designated in the University Examination Timetable. The timetable will be available in Draft form approximately eight weeks before the commencement of the examinations and in Final form approximately four weeks before the commencement of the examinations.

<http://www.timetables.mq.edu.au/exam>

The only exception to not sitting an examination at the designated time is because of documented illness or unavoidable disruption. In these circumstances you may wish to consider applying for Special Consideration. Information about unavoidable disruption and the special consideration process is available at:

<http://www.reg.mq.edu.au/Forms/APSCon.pdf>

If a Supplementary Examination is granted as a result of the Special Consideration process the examination will be scheduled after the conclusion of the official examination period.

Note that there is a Division policy regarding requests for special consideration for examinations and the granting of supplementary examinations which can be found at:

<http://www.efs.mq.edu.au/supexams.htm>

You are advised that it is Macquarie University policy not to set early examinations for individuals or groups of students. All students are expected to ensure that they are available until the end of the teaching semester, that is the final day of the official examination period.

#### **PLAGIARISM**

The University defines plagiarism in its rules: "Plagiarism involves using the work of another person and presenting it as one's own." Plagiarism is a serious breach of the University's rules and carries significant penalties. You must read the University's practices and procedures on plagiarism. These can be found in the *Handbook of Undergraduate Studies* or on the web at:

<http://www.student.mq.edu.au/plagiarism/>

**DO NOT REMOVE  
THE STAPLES**