



The University of Southern Queensland

## Course specification

This version produced 20 Dec 2007.

The current and official versions of the course specifications are available on the web at  
<<http://www.usq.edu.au/coursespecification/current>>.

Please consult the web for updates that may occur during the year.

### Description: Essential Mathematics for Business

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
FDN	7430	63160	1, 2007	ONC	0.50	Springfield

<b>Academic group:</b>	INTOF
<b>Academic org:</b>	INT002
<b>Student contribution band:</b>	2
<b>ASCED code:</b>	010199

### STAFFING

Examiner: Robyn Pigozzo

Moderator: Lyndal Wood

### RATIONALE

Students considering entry into Bachelor of Business Commerce or Bachelor of Information Technology (Commercial or End User computing) require mathematical knowledge and skills if they are to be successful in their chosen field of study. These students need a level of numerical and communication competence in basic mathematics before proceeding to the Foundation Studies II mathematics course.

### SYNOPSIS

Students will revise basic mathematics in English from the topics of arithmetic, algebra, graphing and statistics, and demonstrate competence of these topics in a business context. Students will demonstrate competent use of a scientific calculator and show competence in communicating mathematics in English.

### OBJECTIVES

On successful completion of this course students should be able to:

1. demonstrate the skills necessary to extend mathematical knowledge beyond everyday life and into further studies;
2. interpret and solve a range of problems involving mathematical concepts relevant to this course;
3. communicate mathematical ideas especially in the business context

### TOPICS

Description	Weighting (%)
1. Arithmetic (Modules 1A, 1B, 1C)	30.00

2.	Algebra (Modules 2A, 2B, 2C)	20.00
3.	Graphing (Module 3A)	30.00
4.	Basic statistics (Module 4A)	20.00

### **TEXT and MATERIALS required to be PURCHASED or ACCESSED**

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

2001, *Mathematics communication level A book 1*, University of Southern Queensland, Toowoomba.

2001, *Mathematics communication level A/B book 2*, University of Southern Queensland, Toowoomba.

Scientific Calculator (bi-variate model preferred)

FDN7430 Study package available from USQ registered provider.

George, L & Galligan, L 2005, *Essential mathematics for business study book*, University of Southern Queensland, Toowoomba.

### **REFERENCE MATERIALS**

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

LTSU 2004 Success in Maths for Economics and LTSU 2006 Success in Maths for Statistics  
SPSS

De Veaus, RD & Velleman, PF 2004, *Introductory statistics*, Pearson Addison, Wesley.

Stonecash, et al. 2003, *Principles of macroeconomics*, 2nd edn, Thompson, Victoria.

### **STUDENT WORKLOAD REQUIREMENTS**

ACTIVITY	HOURS
Directed Study	45.00
Private Study	26.00
Test	2.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg(%)	Due date
WORKSHEET 1	18.00	9.00	05 Mar 2007 (see note 1)
WORKSHEET 2	18.00	9.00	05 Mar 2007 (see note 2)
WORKSHEET 3	14.00	7.00	05 Mar 2007 (see note 3)
WORKSHEET 4	8.00	4.00	05 Mar 2007 (see note 4)
WORKSHEET 5	12.00	6.00	05 Mar 2007 (see note 5)
WORKSHEET 6	10.00	5.00	05 Mar 2007 (see note 6)
FINAL TEST	60.00	60.00	11 Jun 2007

### NOTES

1. Due during the term as required by the teacher.
2. Due during the term as required by the teacher.
3. Due during the term as required by the teacher.
4. Due during the term as required by the teacher.
5. Due during the term as required by the teacher.
6. Due during the term as required by the teacher.

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration. International students must attend all activities scheduled for them and ensure that their attendance is registered with the staff member in charge of the activity.
- 2 Requirements for students to complete each assessment item satisfactorily:  
Refer to statement 4 below for the requirements to receive a passing grade in this course. All assessment items must be received prior to the start of the examination period for the semester in which the course is offered. Students may be required to re-submit an assessment piece that is unsatisfactory.
- 3 Penalties for late submission of required work:  
If students submit assignments after the due date without an approved extension of time then a penalty of 5% of the total marks available for the assignments will apply for each day late.
- 4 Requirements for student to be awarded a passing grade in the course:  
To be assured of receiving a passing grade a student must attempt all of the summative assessment items, achieve at least 50% in the final test and 50% in the weighted marks for worksheets and at least 50% of the total weighted marks available for the course. Students who do not qualify for a Passing grade may, at the discretion of the Examiner,

be assigned additional work to demonstrate to the Examiner that they have achieved the required standard. It is expected that such students have gained at least 40% of the total weighted marks available for the course

- 5 Method used to combine assessment results to attain final grade:  
The final grades for students will be assigned on the basis of the weighted aggregate of the marks obtained for each of the summative assessment items in the course.
- 6 Examination information:  
Final Test information: The final test in the course is a Restricted Test.. The only materials that candidates may use in the restricted examination for this course are: calculators which cannot hold textual information (students must indicate on their examination paper the make and model of any calculator(s) they use during the test; English translation dictionaries (but not technical dictionaries). 1 A4 page of handwritten or typed notes (written on one or both sides).
- 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary tests for this course will be held within four weeks following the test period by arrangement with the examiner. The examiner will advise students involved in writing of the date time and location of any such test.
- 8 University Regulations:  
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL <http://www.usq.edu.au/corporateservices/calendar/part5.htm> or in the current USQ Handbook.

## **ASSESSMENT NOTES**

- 1 Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non directed personal study.
- 2 Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination; IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).

## **OTHER REQUIREMENTS**

- 1 Students work through a series of worksheets associated with mathematics modules. The exam is based on the applications of mathematics in business.
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