



## The University of Southern Queensland

### Course specification

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: Mathematics Tertiary Preparation

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
MTS	7001	86043	1, 2009	EXT	1.00	Toowoomba

<b>Academic group:</b>	KUMBN
<b>Academic org:</b>	KUMBNL
<b>Student contribution band:</b>	2
<b>ASCED code:</b>	010101

#### STAFFING

Examiner: Bill McCann  
Moderator: Maree Toombs

#### RATIONALE

Students entering tertiary study require an opportunity to master and hence be confident with basic mathematics. This course will provide students with the basic mathematical competencies for tertiary studies in Bachelor of Education, Bachelor of Nursing (Pre-Registration) and Bachelor of Science (Psychology).

#### SYNOPSIS

Using concepts of self-paced instruction the course guides students through a carefully sequenced series of topics, which will provide the foundation for mathematics that will be encountered in tertiary studies, detailed above. The self-paced structure allows students to work at their own pace developing confidence with mathematics and general problem solving.

#### OBJECTIVES

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

1. develop competencies in national numeracy skills;
2. demonstrate an understanding of a number of mathematical topics essential for tertiary study;
3. interpret and solve a range of problems involving mathematical concepts relevant to this course;
4. demonstrate the skills necessary to extend mathematical knowledge into everyday life and other studies.

#### TOPICS

Description	Weighting (%)
1. Managing mathematics	6.00

2.	More than just numbers	12.00
3.	The power of numbers	12.00
4.	Comparing numbers	12.00
5.	Representing relationships	12.00
6.	Dealing with data	15.00
7.	Generalising numbers - algebra	15.00
8.	Generalising numbers - graphs	16.00

### **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).

Scientific calculator (the use of a Casio is demonstrated in the study materials)

### **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.

Scientific calculator Casio FX 82TL

de Klerk, Judith 1999, *Illustrated maths dictionary for Australian students*, 3rd edn,

OPACS 2001, *Mastering the calculator*, USQ, Toowoomba.

### **STUDENT WORKLOAD REQUIREMENTS**

ACTIVITY	HOURS
Assessments	50.00
Directed Study	45.00
Private Study	80.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT 1	24.00	5.00	20 Mar 2009
LEARNING DIARY	1.00	1.00	20 Mar 2009 (see note 1)
ASSIGNMENT 2	33.00	15.00	10 Apr 2009
LEARNING DIARY	1.00	1.00	10 Apr 2009
ASSIGNMENT 3	44.00	16.00	08 May 2009
LEARNING DIARY	1.00	1.00	08 May 2009
1.5 HOUR TEST	65.00	40.00	25 May 2009 (see note 2)
ASSIGNMENT 4	61.00	20.00	12 Jun 2009
LEARNING DIARY	1.00	1.00	12 Jun 2009

### NOTES

1. Learning Diary is to be submitted with each assignment on the due date as stated.
2. Residential School 2 (25-29 May)

## ASSESSMENT NOTES

- 1 Attendance at all scheduled Residential Schools: a) attendance at all scheduled Residential Schools is compulsory in order to meet course objectives; b) it is the student's responsibility to study all material provided to them at Residential Schools 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; and c) If students are employed they will need to notify their employer of the Residential School dates and arrange for study leave.
- 2 To be assured of a passing grade, students must: a. satisfactorily complete and submit all assignments; b. achieve at least 50% of the total marks allocated for assignments; and c. achieve at least 45% in the examination when an exam is offered.
- 3 Unsatisfactory levels of achievement a) Students who have undertaken all of the required assessments in a course but who have failed to demonstrate satisfactory levels of achievement may be granted an additional opportunity to make up for the unsatisfactory result. b) Students who have been granted an additional opportunity may, at the discretion of the examiner be invited to undertake a Supplementary Examination or equivalent additional work as deemed appropriate by the examiner c) Students who have been granted an additional opportunity shall only be assigned a passing grade (C) or a failing grade (F) for this course. d) An additional opportunity will only be awarded when, at the discretion of the Examiner, a student will be able to achieve the remaining objectives of the course by a date determined by the examiner of this course.
- 4 The Examination in this course is restricted a) In a Restricted Examination, candidates are allowed access to specific materials during the examination. The only materials that candidates may use in the restricted examination for this course are: writing materials (non-electronic and free from material which could give the student an unfair advantage in the examination); 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 examination); one double-sided A4 page of help sheets (formulas, examples, etc.).
- 5 Assignments The onus is on the student to provide proof of the despatch date, if requested by the Examiner; b. students must retain a copy of each item submitted for assessment. This must be despatched to USQ within 24 hours if requested by the Examiner; c. in accordance with University's Assignment Extension Policy (Regulation 5.6.1), the examiner of a course may grant an extension of the due date of an assignment in extenuating circumstances such as documented ill-health or documented personal cultural circumstances. d. If students submit assignments after the due date without prior approval of the Examiner, a penalty of up to 10% of the total marks gained by the student for the assignment may apply for each working week late.
  - 6 Legitimacy of assessments a) Pieces of assessment must be the work of individual students. Joint pieces of assessment are not permitted unless written approval has been obtained from the Examiner. b) Dishonest action in relation to assessment includes: copying or attempting to copy the work of others; use of or attempting to use information prohibited from use in that form of assessment; submitting the work of another as your own; consciously committing acts of plagiarism ( i.e. taking and using another's thoughts or writings as one's own with intent to deceive).

## **OTHER REQUIREMENTS**

- 1 To be assured of a passing grade in this course, students will be required to obtain at least 50% for the assignments in aggregate; at least 50% in the final examination; and an overall mark of at least 50%.
  - 2 Attendance and participation in residential schools is required to meet all course objectives and assessment.
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