



The University of Southern Queensland

## Course specification

<b>Description: Preparatory Mathematics</b>						
Subject	Cat-nbr	Class	Term	Mode	Units	Campus
TPP	7180	55409	2, 2006	EXT	1.00	Toowoomba

<b>Academic group:</b>	LTSUN
<b>Academic org:</b>	LTSUNT
<b>Student contribution band:</b>	1
<b>ASCED code:</b>	100705

### STAFFING

Examiner: Colin Carmichael

Moderator: Peter Van Vuuren

### RATIONALE

All students entering tertiary study require an opportunity to master and hence be confident with basic mathematics embedded within their discipline studies. This course will provide students with the basic mathematical knowledge and skills for tertiary studies in undergraduate courses that do not specifically recommend mathematics, for example Bachelor of Arts. This course also provides foundation material in mathematics for further studies in the pre-tertiary studies in mathematics.

### SYNOPSIS

Using concepts of self-paced instruction and adult learning 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 and further pre-tertiary studies in mathematics. The self-paced structure allows students to work at their own pace within a specified framework developing confidence with mathematics, mathematical communication and general problem solving.

### OBJECTIVES

In the process of successful completion of this course, students should be able to:

1. demonstrate an understanding of a number of mathematical topics essential for tertiary study and further pre-tertiary study, detailed below (all assignments);
2. interpret and solve a range of problems involving mathematical concepts relevant to this course (all assignments);
3. demonstrate the skills necessary to extend mathematical knowledge into everyday life and other studies (all assignments);
4. demonstrate an understanding of personal strategies used in the study of mathematics (all assignments);
5. effectively interpret and communicate mathematics within a range of situations and problems (all assignments).

## TOPICS

	Description	Weighting (%)
1.	Managing Mathematics	4.00
2.	More than just numbers	16.00
3.	The power of numbers	16.00
4.	Comparing numbers	16.00
5.	Representing relationships	16.00
6.	Dealing with data	16.00
7.	Mathematical literacy	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).

All required textbooks for this course will be provided by OPACS. All study materials are supplied as part of the course. There is no prescribed textbooks for this course.

## 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.

## STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessment	15.00
Directed Study	112.00
Private Study	38.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg(%)	Due date
ASSIGNMENT 1	20.00	10.00	04 Aug 2006
ASSIGNMENT 2	30.00	15.00	01 Sep 2006
ASSIGNMENT 3	30.00	20.00	22 Sep 2006
ASSIGNMENT 4	30.00	20.00	13 Oct 2006
ASSIGNMENT 5	60.00	35.00	10 Nov 2006

## **IMPORTANT ASSESSMENT INFORMATION**

- 1 Attendance requirements:  
There are no attendance requirements for this course. However, it is the students' responsibility 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.
- 2 Requirements for students to complete each assessment item satisfactorily:  
To complete each assessment satisfactorily, a student is required to obtain at least 50% of the total marks available for each assignment. Students may be required to resubmit an assignment or complete extra work for each assignment that is unsatisfactory. All assignments, extra work and re-submissions must be received prior to the exam period for the semester in which the course is offered.
- 3 Penalties for late submission of required work:  
Students are strongly encouraged to discuss any problems, regarding their ability to submit assignments on time, with the lecturer prior to the due date of the assignments. If students submit assignments after the scheduled due date without prior approval of an extension of the due date, then a penalty of 5% of the total marks available for the assignment may apply for each working day late.
- 4 Requirements for student to be awarded a passing grade in the course:  
To be assured of receiving a passing grade, students must gain at least 50% in each of the assignments and obtain at least 50% of the total weighted marks available for all assessment items. 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 marks available for all summative assessment items.
- 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:  
There is no examination in this course.
- 7 Examination period when Deferred/Supplementary examinations will be held:  
There is no examination in this course.
- 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 must retain a copy of each item submitted for assessment. This must be produced within ten days if required by the Examiner.
- 2 OPACS will normally only accept assessments that have been written, typed or printed on paper-based media.