



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 Program Level A

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
TPP	7181	90754	2, 2009	EXT	1.00	Toowoomba

<b>Academic group:</b>	ELEPC
<b>Academic org:</b>	ELEPC
<b>Student contribution band:</b>	6
<b>ASCED code:</b>	010199

### STAFFING

Examiner: Peter Van Vuuren  
Moderator: Clare Robinson

### 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).

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

## TOPICS

	Description	Weighting (%)
1.	Managing mathematics	2.00
2.	More than just numbers	14.00
3.	The power of numbers	14.00
4.	Comparing numbers	14.00
5.	Representing relationships	14.00
6.	Dealing with data	14.00
7.	Generalising numbers - algebra	14.00
8.	Generalising numbers - graphs	14.00

## 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 ELEPC. Student will need to acquire a Scientific calculator. All study materials are supplied as part of the 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
Assessments	15.00
Directed Study	89.50
Group Work	22.50
Private Study	38.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT 1	24.00	6.00	31 Jul 2009
ASSIGNMENT 2	44.00	9.00	28 Aug 2009
ASSIGNMENT 3	44.00	9.00	25 Sep 2009
ASSIGNMENT 4	44.00	10.00	09 Oct 2009
ASSIGNMENT 5	28.00	6.00	23 Oct 2009
EXAM CMA	20.00	20.00	END S2
END OF SEMESTER EXAM	40.00	40.00	END S2 (see note 1)

### NOTES

1. Examination dates will be available during the semester. Please refer to the examination timetable when published.

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
One 1.5 hour group learning session will be provided in each teaching week of the semester. Students attendance at these sessions, and participation in the sessions, will not be used in determining any student s final grade in the course. However, students are strongly advised that their active participation in all of the group learning sessions, will greatly increase the probability that they will achieve a passing grade for the course. In addition to the scheduled group learning sessions, individual tutorial sessions can be booked by students throughout the teaching weeks.
- 2 Requirements for students to complete each assessment item satisfactorily:  
Students are not required to complete every assessment item to a satisfactory standard in order to obtain a passing grade for the course.
- 3 Penalties for late submission of required work:  
If students submit assignments after the due date without prior approval then a penalty of 5% of the total marks gained by the student 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 a passing grade, a student must achieve an aggregated mark of a least 50% in the total marks allocated for the course. Students who do not qualify for a Passing grade may, at the discretion of the Examiner, be awarded a Supplementary Examination and/or assigned additional work to demonstrate to the Examiner that they have achieved the required standard.
- 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:  
Examinations in this course are restricted examinations. 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; 1 A4 page of hand written or typed notes (written on both sides); English translation dictionaries (but not technical dictionaries).

- 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary examinations for this course will be held during the next examination period.
- 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 five days if required by the Examiner.

### **OTHER REQUIREMENTS**

- 1 The time it will take to complete this mathematics course will vary and will depend on the student's background and experience; times indicated above are a guideline only.
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