



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: Preparatory Mathematics

| Subject | Cat-nbr | Class | Term | Mode | Units | Campus |
|---------|---------|-------|---------|------|-------|-----------|
| TPP | 7180 | 75120 | 1, 2008 | EXT | 1.00 | Toowoomba |

| | |
|-----------------------------------|--------|
| Academic group: | LTSUN |
| Academic org: | LTSUNT |
| Student contribution band: | 1 |
| ASCED code: | 100705 |

STAFFING

Examiner: Peter Van Vuuren
Moderator: Clare Robinson

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 |
|----------------|--------|
| Assessments | 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 | 14 Mar 2008 |
| ASSIGNMENT 2 | 30.00 | 15.00 | 11 Apr 2008 |
| ASSIGNMENT 3 | 30.00 | 20.00 | 02 May 2008 |
| ASSIGNMENT 4 | 30.00 | 20.00 | 23 May 2008 |
| ASSIGNMENT 5 | 60.00 | 35.00 | 20 Jun 2008 |

IMPORTANT ASSESSMENT INFORMATION

- 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.
- Requirements for students to complete each assessment item satisfactorily:**

N/A
- 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.
- 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% 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.
- 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.
- Examination information:**

There is no examination in this course.
- Examination period when Deferred/Supplementary examinations will be held:**

There is no examination in this course.
- 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.