The University of Southern Queensland
Course specification

Description: Mathematics Tertiary Preparation Program Level A

<table>
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<th>Subject</th>
<th>Cat-nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
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<td>1, 2005</td>
<td>EXT</td>
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Academic group: OPACS
Academic org: OPACSP
Student contribution band: 2
ASCED code: 010199

STAFFING
Examiner: Colin Carmichael
Moderator: Peter Van Vuuren

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

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Managing mathematics</td>
<td>2.00</td>
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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 OPACS. 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

<table>
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<tr>
<th>ACTIVITY</th>
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<tr>
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## ASSESSMENT DETAILS

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<tr>
<td>ASSIGNMENT 2A</td>
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<td>08 Apr 2005</td>
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<tr>
<td>ASSIGNMENT 3A</td>
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<td>10.00</td>
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<td>10.00</td>
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### NOTES
1. Learning Diary is to be submitted with each assignment on the assignment due date.
2. B assignments only to be completed upon the request of the Examiner. The due date for B assignments will be advised by the Examiner as necessary.
3. Examination dates will be available during the semester. Please refer to the examination timetable when published.

### 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 of the assessment items satisfactorily, students must normally obtain at least 50% of the marks available for each assessment. Students may be required to re-submit 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:**
   - 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 attempt all the summative assessment item, achieve at least 50% in the examination, achieve an aggregated mark of a least 50% in the total marks allocated for the assignments, and at least 50% of the available weighted marks for the summative assessment items. 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. 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:
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 handwritten 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.