Description: Essential Mathematics for Business

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-Nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
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<td>FDN</td>
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<td>24031</td>
<td>2, 2003</td>
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Academic Group: OPACS
Academic Org: OPACSP
HECS Band: 2
ASCED Code: 010199

STAFFING
Examiner: Lucy George
Moderator: Linda Galligan

RATIONALE
Students considering entry into Bachelor of Business/Commerce or Bachelor of Information Technology (Commercial or End User computing) require mathematical knowledge and skills if they are to be successful in their chosen field of study. These students need a level of numerical and communication competence in basic mathematics before proceeding to the Foundation Studies II mathematics course.

SYNOPSIS
Students will revise basic mathematics in English from the topics of arithmetic, algebra, graphing and statistics in a business context and will demonstrate mastery in these topics. Students will demonstrate competent use of a scientific calculator and show competence in communicating mathematics in English.

OBJECTIVES
On successful completion of this course students should be able to:

- demonstrate the skills necessary to extend mathematical knowledge beyond everyday life and into further studies;
- interpret and solve a range of problems involving mathematical concepts relevant to this course;
- communicate mathematical ideas both in written and oral form especially in the business context.
TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Arithmetic (Modules 1A, 1B, 1C)</td>
<td>30.00</td>
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<td>2. Algebra (Modules 2A, 2B, 2C)</td>
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<tr>
<td>3. Graphing (Module 3A)</td>
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<tr>
<td>4. Basic statistics (Module 4A)</td>
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TEXT and MATERIALS required to be PURCHASED or ACCESSED:
Books can be ordered by fax or telephone. For costs and further details use the 'Book Search' facility at http://bookshop.usq.edu.au by entering the author or title of the text.

2001, Mathematics Communication Level A Book 1, University of Southern Queensland, Toowoomba.


Scientific Calculator (bi-variate model preferred)


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.


PaceXL or Pace2000 software Package, Cicada Bay Pty Ltd

OPACS 2000 Success in Maths for Economics

OPACS 2000 Success in Maths for Statistics


STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Assessment</td>
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<td>Directed Study</td>
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<td>Private Study</td>
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## ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks Out of</th>
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</table>

### NOTES:

. Students will be advised in class of assessment due dates.
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### IMPORTANT ASSESSMENT INFORMATION

1. **Attendance requirements:**
   It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and 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. International students must attend all activities scheduled for them and ensure that their attendance is registered with the staff member in charge of the activity.

2. **Requirements for students to complete each assessment item satisfactorily:**
   To complete each of the assessment items satisfactorily, students must obtain at least 80% of the marks available for each competency test from the maths
modules. Failing to achieve at least 80% means that students may have to complete another competency test until mastery of that maths module is attained. However marks from the students first attempt in each competency test will be used towards their final grade.

3 Penalties for late submission of required work:
N/A

4 Requirements for student to be awarded a passing grade in the course:
To be assured of receiving a passing grade a student must submit all of the summative assessment items (examination and competency tests) and achieve at least 50% of the available weighted marks for those 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 (or grades) obtained for each of the summative assessment items in the course.

6 Examination information:
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: 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; English translation dictionaries (but not technical dictionaries); Formula sheets.;

7 Examination period when Deferred/Supplementary examinations will be held:
Any Deferred or Supplementary examinations for this course will be held on a date nominated by the examiner. The examiner will advise students involved in writing of the date time and location of any such examination.

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/SECARIAT/calendar/Part5/ or in the printed version of the current USQ Handbook.

ASSESSMENT NOTES

1 Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non-directed personal study.

2 Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination; IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).
OTHER REQUIREMENTS

1. Competency tests are predominatly self-paced. Students work sequentially through the modules they are required to master at their own pace. Mastery of a module is to be demonstrated by the student taking a competency test before proceeding with study of another module. The revision test is based on the applications of mathematics in business.