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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<tr>
<td>FDN</td>
<td>7430</td>
<td>40991</td>
<td>1, 2005</td>
<td>EXT</td>
<td>0.50</td>
<td>Toowoomba</td>
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Academic group: OPACS
Academic org: OPACSP
Student contribution band: 2
ASCED code: 010199

STAFFING
Examiner: Linda Galligan
Moderator: Janet Taylor

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:

1. demonstrate the skills necessary to extend mathematical knowledge beyond everyday life and into further studies;
2. interpret and solve a range of problems involving mathematical concepts relevant to this course;
3. communicate mathematical ideas both in written and oral form especially in the business context.
4. communicate mathematical ideas in sentences and paragraphs 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>Arithmetic (Modules 1A, 1B, 1C)</td>
<td>30.00</td>
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<tr>
<td>Algebra (Modules 2A, 2B, 2C)</td>
<td>20.00</td>
</tr>
<tr>
<td>Graphing (Module 3A)</td>
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<tr>
<td>Basic statistics (Module 4A)</td>
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</table>

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).

2001, Mathematics communication level a book 1, University of Southern Queensland, Toowoomba.
2001, Mathematics communication level a/b book 2, 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.

OPACS 2003 Success in Maths for Economics and OPACS 2002 Success in Maths for Statistics

SPSS

STUDENT WORKLOAD REQUIREMENTS

<table>
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<tr>
<th>ACTIVITY</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>
<th>Wtg(%)</th>
<th>Due date</th>
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<tr>
<td>COMPETENCY TEST 1B</td>
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<td>COMPETENCY TEST 1C</td>
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</table>

NOTES
1. Students will be advised in class of assessment due dates.

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 competeny 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 each of 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/corporateservices/calendar/part5.htm or in 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 predominantly 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.