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>
<th>Campus</th>
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<tr>
<td>FDN</td>
<td>7430</td>
<td>34035</td>
<td>2, 2004</td>
<td>ONC</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.


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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<tr>
<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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<td>22.00</td>
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<tr>
<td>COMPETENCY TEST 1B</td>
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<td>COMPETENCY TEST 1C</td>
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<tr>
<td>COMPETENCY TEST 2A</td>
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<td>COMPETENCY TEST 2B</td>
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<td>5.00</td>
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<td>COMPETENCY TEST 3A</td>
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<td>COMPETENCY TEST 4A</td>
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<td>END OF SEMESTER TEST-2HRS</td>
<td>100.00</td>
<td>50.00</td>
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</tr>
</tbody>
</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 competency test will be used towards
   their final grade.

3 Penalties for late submission of required work:
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/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.