



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: Mathematics for Living

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
CST	7001	86042	1, 2009	EXT	1.00	Toowoomba

Academic group:	KUMBN
Academic org:	KUMBNL
Student contribution band:	2
ASCED code:	010101

STAFFING

Examiner: Bill McCann
Moderator: Maree Toombs

RATIONALE

Students entering tertiary study require an opportunity to master and become confident with mathematics. This course will attempt to provide students with mathematical competencies and improve capabilities for tertiary studies within a broad spectrum of undergraduate degrees. Hence, the course will equip students with a broad mathematical background to assist with further tertiary studies.

SYNOPSIS

Using concepts of self-paced instruction, the course aims to give the student 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 effective and efficient mathematical problem solving skills. In addition, content of selective modules is a culturally relevant way to represent and portray an Indigenous perspective of how mathematical forms are used within their communities, families, language, culture and traditional practices. Hence, Indigenous students will feel comfortable and will relate to the appropriate use of mathematical language and understanding of mathematical processes and concepts from an Indigenous and non-Indigenous view. As a result, this will ensure that students become successful and maintain interest within the arena of mathematics.

OBJECTIVES

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

1. identify both Indigenous and non- Indigenous forms of communication for mathematical purposes;
2. develop competencies in national numeracy skills;
3. develop mathematical skills, which facilitate smooth progression within their chosen degree course;

4. interpret, solve and communicate a range of problems involving mathematical concepts relevant to this course; and
5. demonstrate the skills necessary to extend mathematical knowledge into everyday life and other studies.

TOPICS

	Description	Weighting (%)
1.	Mathematics: Indigenous and non-Indigenous: Past and Present	10.00
2.	Managing Mathematics	18.00
3.	Comparing Numbers	18.00
4.	Introduction to Personal Finance	18.00
5.	Measurement: Application in Every Day Life	18.00
6.	Dealing with Data - Statistics in Our Life	18.00

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).

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.

Scientific Calculator Casio FX 82TL or a higher model

de Klerk, Judith 1999, *Illustrated maths dictionary for Australian students*, 3rd edn,

OPACS 2001, *Mastering the calculator*, USQ, Toowoomba.

(This text is available for purchase from the Centre for Australian Indigenous Knowledges.)

STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessments	50.00
Directed Study	45.00
Private Study	75.00

ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT 1	40.00	10.00	20 Mar 2009
ASSIGNMENT 2	40.00	16.00	10 Apr 2009
ASSIGNMENT 3	48.00	16.00	08 May 2009
1.5 HOUR INTERIM EXAMINATION	60.00	35.00	25 May 2009 (see note 1)
ASSIGNMENT 4	40.00	23.00	12 Jun 2009

NOTES

1. Residential School 2 (25-29 May 2009)

ASSESSMENT NOTES

- 1 Attendance at all scheduled Residential Schools: a) attendance at all scheduled Residential Schools is compulsory in order to meet course objectives; b) it is the student's responsibility to study all material provided to them at Residential Schools 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; and c) If students are employed they will need to notify their employer of the Residential School dates and arrange for study leave.
- 2 To be assured of a passing grade, students must: a. satisfactorily complete and submit all assignments; b. achieve at least 50% of the total marks allocated for assignments; and c. achieve at least 40% in the examination when an exam is offered.
- 3 Unsatisfactory levels of achievement a) Students who have undertaken all of the required assessments in a course but who have failed to demonstrate satisfactory levels of achievement may be granted an additional opportunity to make up for the unsatisfactory result. b) Students who have been granted an additional opportunity may, at the discretion of the examiner be invited to undertake a Supplementary Examination or equivalent additional work as deemed appropriate by the examiner c) Students who have been granted an additional opportunity shall only be assigned a passing grade (C) or a failing grade (F) for this course. d) An additional opportunity will only be awarded when, at the discretion of the Examiner, a student will be able to achieve the remaining objectives of the course by a date determined by the examiner of this course.
- 4 The Examination in this course is restricted a) 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); a help sheet, one doubled-sided sheet of A4 paper which may include formulas, examples, etc.
- 5 Assignments The onus is on the student to provide proof of the despatch date, if requested by the Examiner; b. students must retain a copy of each item submitted for assessment. This must be despatched to USQ within 24 hours if requested by the Examiner; c. in accordance with University's Assignment Extension Policy (Regulation 5.6.1), the examiner

- of a course may grant an extension of the due date of an assignment in extenuating circumstances such as documented ill-health or documented personal cultural circumstances. d. If students submit assignments after the due date without prior approval of the Examiner, a penalty of up to 10% of the total marks gained by the student for the assignment may apply for each working week late.
- 6 Legitimacy of assessments a) Pieces of assessment must be the work of individual students. Joint pieces of assessment are not permitted unless written approval has been obtained from the Examiner. b) Dishonest action in relation to assessment includes: copying or attempting to copy the work of others; use of or attempting to use information prohibited from use in that form of assessment; submitting the work of another as your own; consciously committing acts of plagiarism (i.e. taking and using another's thoughts or writings as one's own with intent to deceive).

OTHER REQUIREMENTS

- 1 To be assured of a passing grade in this course, students will be required to obtain at least 50% for the assignments in aggregate; at least 50% in the final examination; and an overall mark of at least 50%.
 - 2 Attendance and participation in residential schools is required to meet all course objectives and assessment.
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