MATHEMATICS, SCIENCE AND IT ACADEMY

SEMESTER 1 2019

Course Title	Contemporary Mathematics (M)	Course Code	M: 1034
Unit Title	Unit3: Contemporary Mathematics	**Unit Code**	10313
Semester Unit	Unit3: Contemporary Mathematics	**Unit Value**	1.0
Term 1 Unit	Unit3a: Contemporary Mathematics	**M:** 10318	**Unit Value** 0.5
Term 2 Unit	Unit3b: Contemporary Mathematics	**M:** 10314	**Unit Value** 0.5

GOALS

The specific goals of this unit are for students to:
- demonstrate the basics of personal financial management and budgets
- develop a basic knowledge of a variety of accommodation types including associated costs
- develop a basic understanding of selected costs with maintaining and using a motor vehicle

CONTENT SUMMARY

Further elaboration on the content of this unit is available at:

http://www.bsss.act.edu.au/__data/assets/word_doc/0016/314251/Contemporary_Mathematics_A-M_17-20.docx

Topic 1: Budgeting and Tenancy	Topic 2: Mathematics of Travel
- Preparing for personal financial independence - Managing short term and long-term personal finances - Individual projects with costing and research - Budgeting for personal interests – hobbies, leisure and recreation activities, subscription, clubs, sports, music	- Holiday planning – domestic and international - Itineraries - Reading timetable for public transport - Distances - Scale and legends - Maps and charts 24hr time

MATERIALS REQUIRED: Calculator. Chromebook. Please bring these to every class.

ASSESSMENT

TASK	DUE DATE	WEIGHTING
Assignment 1	Week 6	25%
Exam 1	Week 9	25%
Assignment 2	Week 15	25%
Exam 2	Week 17	25%

ASSESSMENT CRITERIA FOR ASSESSMENT AND REPORTING OF STUDENT ACHIEVEMENT

Students will be assessed on the degree to which they demonstrate:

- Knowledge – knowledge of mathematical facts, techniques and formulae presented in the unit
- Application – appropriate selection and application of mathematical skills in mathematical modelling and problem solving
- Communication – interpretation and communication of mathematical ideas in a form appropriate for a given use or audience.

Unit Grades for M Courses

Achievement Standards for M Courses

Technology, its selection and appropriate use, is an integral part of all the following descriptors.

	*A student who achieves an **A** grade typically, independently*	*A student who achieves a **B** grade typically, with some assistance*	*A student who achieves a **C** grade typically, with occasional assistance*	*A student who achieves a **D** grade typically, with continuous guidance*	*A student who achieves an **E** grade typically, with direct instruction*
Knowledge	• demonstrates proficiency in use of simple mathematical facts, techniques and formulae	• demonstrates use of simple mathematical facts, techniques and formulae with some accuracy	• uses simple mathematical facts, techniques and formulae with some accuracy	• uses basic mathematical facts and techniques with limited accuracy	• uses basic mathematical facts and techniques with limited accuracy
Application	• selects and applies techniques to solve practical mathematical problems	• selects and generally applies appropriate techniques to solve practical mathematical problems	• selects and applies techniques to solve practical mathematical problems	• solves some practical mathematical problems	• solves some practical mathematical problems
Communication	• is accurate and appropriate in presentation of mathematical ideas	• is generally accurate in presentation of mathematical ideas	• presents some mathematical ideas	• presents some mathematical ideas	• presents some mathematical ideas

ATTENDANCE AND PARTICIPATION

Students are expected to submit all assessment items and attend all classes, participate in a positive manner and seek support whenever it is required. Excursions, simulations and presentations by visitors (including lunchtime) may form part of classwork. It is your responsibility to catch up on missed work when absent from class.

Any student whose attendance falls below the 90% of the scheduled classes/contact time and has not provided substantial documentary evidence to cover the absence will be awarded a V grade. This means that 4 unexplained absences in a term or 8 unexplained absences in a semester could mean that a V grade may be awarded. However, the Principal has the right to exercise discretion in special circumstances if satisfactory documentation is supplied.

LATE SUBMISSION OF WORK

Students are encouraged to submit work on time, as it is a valuable organisational skill. Students are also encouraged to complete work even if it is late, as there are educational benefits in doing so.

Late work will receive a penalty of 5% (of possible marks) per calendar day late, unless an extension is granted by the class teacher prior to the deadline. This means that 5% is taken off the possible marks that could have been achieved eg. If a student achieved a score of 75/100, and the item is one day late, then five marks (5% of 100) would be taken from 75, which leaves the score as 70/100. 'Per calendar day late' means each day late whether it be a weekend or public holiday. Items due on any date must be submitted to the class teacher, faculty staff room, or front office at the college by 3.30pm on that day. After 3.30pm, the item will attract the late penalty. Submission of work on a weekend or public holiday is not acceptable. If you do not submit your work to your class teacher, make sure that it is signed and dated by either another member of staff in the faculty staffroom, or a member of the front office staff.

Achievement in Accredited Courses is reported to the Board of Senior Secondary Studies and students with a Grade A-E. Late work submitted without approval will have an impact on the grade awarded to a student.

No work will be accepted after marked work has been returned or accepted after the unit has completed. Computer and/or printer failure will not be accepted as a valid reason for late work. Make sure you backup, keep hard copies and rough notes.

Unless prior approval is granted, any student who fails to submit assessment tasks worth in total 70% or more of the assessment for the unit, will be considered to be unassessable and will receive a V grade. The Principal has the right to exercise discretion in the application of the late penalty in special circumstances where satisfactory documentation is supplied.

CHEATING AND DISHONEST PRACTICE

The integrity of the College's assessment system relies upon all involved acting in accordance with the highest standards of honesty and fairness. Any departure from such standards will be viewed very seriously." Accordingly:

- Plagiarism - claiming authorship of someone else's work (intentionally or otherwise) - is a serious misdemeanour and attracts severe penalties.
- Students are required to acknowledge the source of all material that is incorporated into their own work.
- Students may not submit the same item for assessment in more than one unit, unless specific agreement has been reached with the class teacher.

MODERATION

Throughout the semester, moderation in the form of common marking schemes, cross marking and joint marking occurs across all units in the Moderation Group to ensure comparability of standards. Moderation is a process whereby student's work is compared so that student performance can be graded fairly and consistently. Moderation takes some time, and so students may not receive their work back until ACT wide moderation of grades across all colleges has occurred. Small Group Moderation is carried out in courses with small class sizes.

RIGHT TO APPEAL

You can appeal against your assessment if you feel that the result you obtained is not fair. You should first talk to your class teacher, and if you are not satisfied with the explanation you must discuss the situation with the Executive Teacher of the faculty concerned. If you still do not feel that your result is fair you should talk to the Deputy Principal Programs for further advice on the 'appeal process'.

Executive Teacher: Ruth Edge
Class Teacher: Renee Couto
Date: February 2019