



THE UNIVERSITY OF THE WEST INDIES
ST. AUGUSTINE, TRINIDAD AND TOBAGO
COURSE OUTLINE FOR ECON 0001

Faculty:	Faculty of Social Sciences
Department:	Department of Economics
Course Code and Title:	ECON 0001 – Mathematics for Social Sciences
Semester:	Semester I & II
Level:	Level I
Pre-requisites:	None
Co-requisites:	None
Anti-requisites:	None
Course Type:	Core
Credits:	0
Method of Delivery:	Face-to-Face

Lecturer Information	
Course Coordinator	Dr. Benjamin Ramkissoon
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Office Hours	Mon. 11am-12pm & Wed. 2pm-3pm

1. Course Description

This course is designed specifically for students who were unsuccessful in the Mathematics Proficiency Test (MPT). In preparation for ECON 1003, the course aims to refresh students' knowledge of CSEC/O-Level mathematics as well as address any deficiencies students may have with the material at this level. In particular, the course reviews the areas of CSEC/O-Level mathematics that are considered to be pre-requisites for ECON 1003. Using a thematic approach and associated worksheets, deficient mathematic skills will be addressed. Upon successful completion of this course, the student is eligible to enrol in ECON 1003.

2. Rationale

A strong background in mathematics is required for success in the University's Economics programme. Failure to pass the MPT usually indicates math deficiencies associated with the CSEC/O-Level mathematics curriculum. To improve a student's successful completion of all required math courses in the Economics programme, the University implemented ECON 0001 to strengthen math skills in students who failed the MPT.

3. Course Aims/Goals

The primary aim of this course is to ensure that the student is well-prepared to read ECON 1003. Students should also use the course as a means for reinforcing their math skills.

4. Course Learning Outcomes

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

1. Apply basic mathematical concepts to practical situations.
2. Solve problems in the areas of economics, accounting and management by applying the appropriate mix of mathematical concepts and methods.
3. Interpret the mathematical concepts, symbols and terminology used in economics, accounting and management.
4. Manipulate mathematical symbols and terminology.
5. Solve linear, quadratic, polynomial and power equations.
6. Solve linear inequalities.
7. Solve a system of simultaneous equations in two variables using the elimination method.

5. Course Content

This course is organized to engage students in the following areas of mathematic skills:

1. Sets – definitions, operation of union, intersection and complement, number of elements in a set.
2. Algebraic Expressions – directed numbers, simplification, substitution, cancellation, the application of the four rules to algebraic expressions.
3. Algebraic Fractions - simplification, application of the four rules.
4. Linear Equations, Cross Multiplication, Changing the Subject of the Formula.
5. Simple Inequalities - manipulating inequalities, solving linear inequalities.
6. Simultaneous Equations.
7. Factorization - common factors, grouping, difference of two squares, perfect squares.
8. Solution of Quadratic Equations – factor, product & sum, quadratic formula methods.
9. Solution of Quadratic Equations – completing the square.
10. Functions - functional notation, types of functions, power functions, inverse functions.
11. The Straight Line - generic equation, slope/gradient, y-intercept, x-intercept, finding y-value for a specified x-value, finding x-value for a specified y-value.

Note: Worded problems will be incorporated in all of the above.

Course Calendar

Week	Content	Reading Resources	Assignments
1	Registration for Sessions		
2	Sets	Textbook or Online Resources	Worksheet #1
3	Algebraic Expressions	Textbook or Online Resources	Worksheet #2
4	Algebraic Expressions	Textbook or Online Resources	Worksheet #3
5	Equations	Textbook or Online Resources	Worksheet #4
6	Inequalities	Textbook or Online Resources	Worksheet #5 [1 st Online Exam]
7	Simultaneous Equations	Textbook or Online Resources	Worksheet #6
8	Factorization	Textbook or Online Resources	Worksheet #7
9	Quadratic Equations	Textbook or Online Resources	Worksheet #8 [Internal Exam]
10	Functions	Textbook or Online Resources	Worksheet #9
11	Power Functions	Textbook or Online Resources	Worksheet #10
12	The Straight Line	Textbook or Online Resources	Worksheet #11 [2 nd Online Exam]
13	Review/Study Week (No Classes)		

6. Teaching Methods

The course will be delivered by way of problem-based learning activities, demonstrations and co-operative learning activities. These strategies will seek to refresh students' knowledge of the course content as well as build students' confidence in the subject matter. Students will be provided with a minimum of two (2) contact hours weekly.

7. Contact and Credit Hours

Type	Duration (Number of Weeks)	Contact Hours	Credit Hours
Lecture	n/a	n/a	n/a
Tutorial	12	24	n/a
Other	n/a	n/a	n/a
Total	12	24	0

8. Course Assessments Description

The coursework components of this course constitute 40% of your overall grade for this course, while the final exam constitutes the remaining 60%. See the table below regarding the distributions of marks.

Note that this course is not for credit and is graded on a pass/fail system. The pass mark for this and all courses is an overall grade of 50%.

9. Course Assessment Type and Course Learning Outcome Matrix

#	Assessment Item	Learning Outcomes	Assessment	
			Weight	Description
1	Online Exam 1	1, 2, 3, 4	5%	Students will take an online exam focused on the topics in Worksheets 1-3.
2	Online Exam 2	1, 2, 3, 4, 5	5%	Students will take an online exam focused on the topics in Worksheets 7-9.
3	Internal Exam	1, 2, 3, 4, 5, 6, 7	20%	Students will take an in-person exam focused on the topics in Worksheets 4-6.
4	Participation	1, 2, 3, 4, 5, 6, 7	10%	Students will receive a grade based on their class participation.
5	Final Exam	1, 2, 3, 4, 5, 6, 7	60%	Invigilated final examination.

10. Attributes of the Ideal UWI Graduate, that Apply to this Course

- ✓ A critical and creative thinker
- ✓ An effective communicator with good interpersonal skills
 - IT-skilled and information literate
 - Innovative and entrepreneurial
 - Globally aware and well-grounded in his/her regional identity
 - Socially, culturally and environmentally responsible
- ✓ Guided by strong ethical values

11. Readings/Learning Resources (Online and Print)

Required/Essential

Raymond Toolsie. 2010. Mathematics: A Complete Course with CXC Questions, Volumes 1 & 2. 3rd edition. Caribbean Educational Publishers. (or any other CSEC-level Mathematics textbook).

Recommended

n/a

Other

Links to online resources and math learning websites are provided on the myeLearning page.

12. University Policies and Expectations

A. Academic Integrity

The UWI is committed to five fundamental values: honesty, trust, fairness, respect and responsibility (The UWI Turnitin Policy). Similarly, students are required to practice these values and are therefore required to be cognizant of and adhere to the UWI policies regarding academic integrity and plagiarism as outlined in its regulations found at <https://sta.uwi.edu/resources/policies/Anti-Plagiarism.pdf> and in the Faculty Regulations and Syllabuses. Refer to UWI Assessment Regulations for additional guidance.

The UWI anticipates that faculty and students will preserve its reputation through the maintenance of high standards of academic integrity. For students this means that the presentation of work for evaluation, whether or not for credit, will result from sincere individual effort and genuine learning and will uphold expected standards for acknowledging the work of others. Infractions will be addressed according to the UWI Examination Regulations and the UWI Regulations on Plagiarism (First Degrees, Diplomas, Certificates). Consistent with UWI's policies Turnitin may be used in this course to compare assignment submissions with Internet sources. Submissions will be made via the eLearning system and may be retained in the global Turnitin repository. When submitting papers to Turnitin, do not include identifying information such as your name and ID number. The system will automatically show this information when the instructor is viewing your submission, but the information will not be retained in the Turnitin database.

Artificial Intelligence (AI) Use

Use of AI in coursework assignment is completely prohibited for this course. In this case, no AI should be used, therefore, any use of AI in the coursework assignment will be dealt with under the Assessment Regulations for First Degrees, Associate Degrees, Undergraduate Diplomas and Certificates or the Regulations for Graduate Certificates, Diplomas and Degrees or any other appropriate university regulation established to preserve academic integrity and quality.

B. Attendance and Examination Policy

All registered students are required to attend their prescribed classes. Students with unsatisfactory class attendance or who have failed to submit any assessments set by his/her Examiner are subject to debarment by the relevant Academic Board, on the recommendation of the relevant Faculty Board, from taking any University examination. Procedures to be used to measure attendance and assessments shall be prescribed by the Faculty (The UWI Assessment Regulations for First Degrees, Associate Degrees, Undergraduate Diplomas and Certificates 2020, p. 3).

A student who misses a class will be held responsible for the class content and for securing material distributed. Attendance is the responsibility of the student and consequently, nonattendance will be recorded. Students in the Faculty of Social Sciences are required to attend 75% of classes.

Students are required to participate in coursework on the prescribed dates. Absence from in-course assessments will only be accommodated in extenuating circumstances based on documented evidence of the circumstances. Such documentation must be presented to the Course Lecturer/Tutor no later than the start of the week following the test.

C. Accommodations for Students with Disabilities

Students should refer to the University of the West Indies St Augustine Campus, Student Disability Policy. https://sta.uwi.edu/resources/policies/Student_Disability.pdf

D. How to Study for This Course

As a student enrolled in this course, your lecturers expect that you will be fully engaged in the traditional classroom, the co-operative learning activities and all relevant activities. Research has shown that students learn best through collaboration and interaction: accordingly, you are encouraged to participate in and complete all worksheets and classroom activities.

Participation in class discussion and problem-solving activities is a critical input to the feedback process within a classroom session. The rules of engagement for these discussions will be defined by the Course Lecturer and/or Tutor at the first class. Under no condition should a student come to a class unprepared to contribute to the class proceedings.

If after the individual effort and the co-operative learning effort, the student feels challenged by a question(s), the student should seek out the Course Lecturer or Tutor for guidance and assistance. The Course Lecturer(s) will be available for consultations during specified Office Hours.

E. Useful links for students

- [Health Services Unit](#)
- [Careers, Co-Curricular and Community Engagement](#)
- [Counselling and Psychological Services](#)
- [Financial Advisory Services](#)
- [Guild Administrative Office](#)
- [Student Accommodation Office \(On and Off-Campus\)](#)
- [Student Activities, Facilities and Commuting Students](#)
- [Student Engagement Unit](#)
- [Student Life and Development](#)
- [Campus IT Services](#)
- [Myelearning Student Guides](#)
- [Introduction to Learning Online](#)
- [Myelearning Service Catalogue](#)