



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

SECTION A. GENERAL COURSE INFORMATION

Faculty: Faculty of Social Sciences

Department: Department of Economics

Course Code and Title: ECON0001 – Mathematics for Social Sciences

Semester: 1 & 2

Level: Undergraduate, Level 0

Pre-requisites: None

Co-requisites: None

Anti-requisites: None

Course Type: Core

Credits: 0

Mode of Delivery: Face-to-Face (F2F)

SECTION B. COURSE STAFF INFORMATION

Coordinator: Dr. Benjamin Ramkissoon

Contact Office Hours: Mondays 12-1pm, Fridays 12-1pm

Email Address: Benjamin.Ramkissoon@uwi.edu

Tutor: Mr. Shane Musai

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Tutor: Mr. Isaiah Mc Intosh

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SECTION C. COURSE DESCRIPTION

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 algebra at the level 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 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. UWI Graduate Outcomes Targeted by this Course

- A Critical and Creative Thinker
- An Effective Communicator with Good Interpersonal Skills

5. Course Learning Outcomes

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

1. Perform arithmetic operations involving integers, fractions, decimals, percentages, powers, roots, and basic set notation accurately in algebraic and applied contexts.
2. Simplify and factorize algebraic expressions using appropriate rules for like terms, brackets, indices, common factors, grouping, and standard quadratic forms.
3. Solve linear equations, linear inequalities, quadratic equations, simple polynomial equations, and exponential equations using appropriate algebraic methods.
4. Rearrange formulae to make a specified variable the subject, and interpret the meaning of variables, constants, coefficients, exponents, and mathematical symbols in simple economic, business, and social science contexts.
5. Solve systems of two linear equations in two unknowns using elimination or substitution.
6. Represent and interpret straight lines using equations.
7. Evaluate and interpret simple functions, including identifying inputs, outputs, and the meaning of function notation.
8. Translate descriptive economic and social scenarios into precise algebraic expressions and equations.

6. Teaching & Learning Strategies

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. Where feasible, there will be three help desk sessions organized throughout the semester.

Participation in class discussions and problem-solving activities is a critical input to the feedback process. The rules of engagement for these discussions will be defined by the Course Lecturer(s) and/or Tutor(s) at the first class. Q&A sessions will be administered from time to time. These are aimed at assisting the student to focus on and clarify key concepts discussed during the previous class or the current class.

#	Method/Strategy	Description
1	Tutorials	Students will present and discuss their solutions to worksheets. The tutor will discuss these solutions and common issues that arise.
2	Help Desk	Students will meet with the course coordinator intermittently throughout the semester for feedback and progress checks.

Contact Hours

Type	Number of Weeks	Contact Hours	Credit Hours
Tutorials	11	22	0
Help Desk	3	6	0
Total	11	28	0

7. Course Assessments Description

The coursework components constitute 40% of your overall grade for this course, while the final exam constitutes the remaining 60%. See the table below regarding the weighting of components. This course is not for credit and is graded on a pass/fail system. The pass mark is an overall grade of 50%.

Midterm (20%): Students will take an in-person, invigilated examination. The assessment will be in the form of short answer questions that requires you to show your working. The date of this assessment is scheduled in the course calendar.

In-Class Participation (10%): The participation grade will reflect both regular attendance and active engagement in tutorial activities. Students may demonstrate engagement through evidence of preparation of designated worksheet questions, participation in individual or group problem-solving activities, discussion of solutions, or other meaningful contributions to the tutorial.

In-Class Quizzes (10%): Students will take two in-person quizzes (each weighted at 5%) at different points in the semester (see course calendar at the end). These short quizzes encourage continuous practice.

8. Course Assessment Type and Course Learning Outcome Matrix

#	Assessment Title & Type	Learning Outcomes	Assessment Weight %
1	In-Class Quizzes/Activities	1-4	10%
2	Class Participation	1-8	10%
3	Midterm Exam	1, 2, 3*, 4, 5, 8	20%
4	Final Exam	1-8	60%

9. Readings/Learning Resources*Required/Essential*

- There is no mandated textbook for this course. Any text that covers the material of the CSEC/O-Level Mathematics syllabus will be sufficient.

Some Recommended Texts

- Toolsie, Raymond. Mathematics: A Complete Course with CXC Questions, Volumes 1 & 2. 3rd Edition. Caribbean Educational Publishers. 2010.
- Haeussler, E., Paul, R. and Wood, R. Introductory Mathematical Analysis for Business, Economics and the Life and Social Sciences. 12th Edition. Prentice Hall. 2008. (Chapters 0-3).
- Martin-Gay, E. Beginning & Intermediate Algebra. 6th Edition, Pearson. 2017.
- Bittinger, M.L, Beecher, J.A. and Johnson, B.L. Introductory and Intermediate Algebra. 5th Edition. Pearson. 2015.

STUDENT SUCCESS & SUPPORT**10. 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.

“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

Given that the current assessments consist of supervised in-class exams and oral/tutorial participation, the use of generative AI tools is not applicable to the assessed components.

When attempting worksheets, AI may be used for practice and explanation, but evidence of competence must be produced where the student can demonstrate and explain their process on their own. To be a responsible user of AI tools, the work must reflect your own intellectual inputs, and you must assume responsibility for the integrity of your contributions.

B. Attendance and Examination Policy

All registered students are required to attend prescribed lectures, practical classes, tutorials, or clinical instructions. 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: Including GPA and Plagiarism Regulations 2017-2018, p. 3).

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. Student Success Information

As a student enrolled in Mathematics for Social Sciences, your teachers expect that you will be fully engaged in the traditional classroom, the cooperative 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. A student should not come to a class unprepared to contribute to the class proceedings.

E. Where Can I Go for Further Assistance?

- [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](#)

11. End of Course Evaluation Procedures:

At the end of this course, students are required to complete a course evaluation questionnaire – Course Experience Review (CER). This is an online form that students fill in anonymously to rate various aspects of their course experience and offer suggestions for improvement. The Dean, Heads of Department, and individual instructors review course evaluation reports to plan changes to future courses/programmes and make decisions related to teaching skills development, teaching methods and teaching appointments.

12. Course Calendar

Week	Topic	Required Reading Learning Resources	Learning Activities	Assignments	
				Name	Due Date
1.	Registration for Sessions				
2.	Sets, Numbers, Arithmetic	Textbook or Online Resources	Tutorial	Worksheet #1	Prior to Class
3.	Algebraic Expressions I	Textbook or Online Resources	Tutorial	Worksheet #2	Prior to Class
4.	Algebraic Expressions II	Textbook or Online Resources	Tutorial Help Desk	Worksheet #3	Prior to Class
5.	Equations	Textbook or Online Resources	Tutorial	Worksheet #4	Prior to Class
6.	Inequalities	Textbook or Online Resources	Tutorial	Worksheet #5 In-Class Quiz	Prior to Class Week 6
7.	Simultaneous Equations	Textbook or Online Resources	Tutorial Help Desk	Worksheet #6	Prior to Class
8.	Nonlinear Expressions	Textbook or Online Resources	Tutorial	Worksheet #7	Prior to Class
9.	Quadratic Equations	Textbook or Online Resources	Tutorial	Worksheet #8 Midterm	Prior to Class Week 9
10.	Exponential Equations	Textbook or Online Resources	Tutorial	Worksheet #9	Prior to Class
11.	The Straight Line	Textbook or Online Resources	Tutorial	Worksheet #10	Prior to Class
12.	Functions	Textbook or Online Resources	Tutorial Help Desk	Worksheet #11 In-Class Quiz	Prior to Class Week 12
13.	Study Week				