

INSTITUTE OF MATHEMATICS
College of Science
University of the Philippines Diliman

Math 2 Course Syllabus

A. Course Catalogue Description

Course Number	Math 2
Course Title	Mathematics in Everyday Life
Course Description	This course covers basic mathematical concepts and skills applied to everyday life.
Prerequisite	None
Course Credit	3 units
Number of Hours	3 hours/week

B. Course Content

I. Basic Numeracy Skills

1. Review based on Diagnostic Test (Algebraic Expressions, Functions)
2. Conversion of ratios, decimals, percentages and fractions
3. The meaningful numerator and denominator
4. Applications
 - a. Rates (passing rate, sports percentages, restaurant bills etc.)
 - b. Percentage increase or decrease
 - c. Purchasing power
 - d. Inflation

II. Exponential and Logarithmic Functions

1. Linear growth versus exponential growth
2. Logarithmic function applications
3. Solving linear equations and exponential equations

III. Mathematics and Society

1. Benefits and importance of mathematics
2. How mathematics may contribute to social disparities
3. Mathematics behind bills

IV. Interest Rates and Time Value of Money

1. Simple and compound interest
2. Future value of money
3. Present value of money
4. Applications
 - a. Savings and Loans
 - b. Amortization
 - c. Credit cards

V. Special Topics

(Suggested Topics)

1. Allocation
2. Taxi fares
3. Socialized pricing
4. Fair division
5. Mathematics of counting
6. Mathematics of chance

For a more detailed syllabus, send an email request to ddapr@math.upd.edu.ph.