

MATH 120 – Business Mathematics

Course Description from Bulletin: An introduction to the mathematics used in the study of finance, financial markets, and economics. (3-0-3)

Enrollment: This course does not count for graduation in any engineering, mathematics, natural science or computer science degree program

Textbook(s): Haeussler, Paul and Wood, *Introductory Mathematical Analysis for Business, Economics and Life and Social Sciences*, 12th edition. Prentice Hall Publishers

Other required material: None

Prerequisites: None

Learning Objectives:

1. Demonstrate basic algebra skills.
2. Sketch straight lines and parabolas.
3. Solve small systems of linear equations.
4. Solve logarithmic and exponential equations.
5. Apply these skills to solve problems in a business context (supply, demand, revenue, cost, depreciation).
6. Solve problems using time-value-of-money techniques (e.g., compound interest, annuities, sinking funds, amortization of loans).

Lecture schedule: two 75 minute lectures per week

Course Outline:

	Hours
1. Algebra Refresher	6
2. Applications of Equations and Inequalities	5
3. Functions and Graphs	9
4. Lines, Parabolas, and Systems	8
5. Exponential and Logarithmic Functions	6
6. Mathematics of Finance	6

Assessment:	Homework	15% - 25%
	Quizzes/Exams	50% - 60%
	Final Exam	20% - 25%

Syllabus prepared by: Sue Sitton and Pearl Bongolan-Walsh

Date: 12/15/05 Revised: 11/08/06 Sitton and Edelstein

Adapted for Business program: 08/15/08 Fasshauer, Updated 01/21/11