

DE LA SALLE UNIVERSITY College of Science Department of Mathematics



COMALGE – College Algebra for Business and Economics Students Prerequisite:

Prerequisite to: BUSANA1

Instructor:_____ Consultation Hours: Contact details:_____ Class Schedule and Room:

Course Description

This is a 3-unit course on College Algebra, specifically designed for Business & Economics students to provide them with a solid and working knowledge of pre-Calculus Algebra. The course tackles the real number of system, polynomials, algebraic fractions and radicals, functions and relations, systems of equations and their respective applications to business and economic situations.

Learning Outcomes

On completion of this course, the student is expected to present the following learning outcomes in line with the Expected Lasallian Graduate Attributes (ELGA)

ELGA	Learning Outcome
Critical and Creative Thinker Effective Communicator	At the end of the course, the students shBT/o 0 1 4591T:
Lifelong Learner	
Service-Driven Citizen	

Grading System

	FOR EXEMPTED STUDENTS (w/out Final	FOR STUDI FINAL with no missed	
Average of	Exam)	quizzes	missed quiz
Average of quizzes	95%	65%	55%
Seatwork, Homework, Board Work, Learning Output	5%	5%	5%
Final exam	-	30 %	40%

Learning Plan								
Learning Outcome	TOPICS	WEEK NO.	Learning Activities					
At the end of the course, the students should be able to understand and explain the basic concepts of algebra.	students1.1 The Set of Real Numbersable to1.2 Integer Exponentsand1.3 Polynomials: Operationsbasicand Special Products		Seatwork Board work Lecture and Discussion Practice Exercises					
	Linear and Quadratic Equations 2.1 Equations 2.1.1 Linear Equations 2.1.2 Involving Rational Expressions 2.1.3 Literal Equations 2.2 Applications of Linear Equation 2.2.1 Number Relation 2.2.2 Investment/Finance 2.3 Quadratic Equations in One Variable and Applications 2.4 Other Equations in One Variable	Week 6 - 9	Seatwork Board work Lecture and Discussion Practice Exercises					
Systems of Equations and Matrices3.1 Systems of Linear Equations in Two Variables3.2 Systems of Linear Equations in Three Variables3.3 Properties and Operations on Matrices3.4 Determinants and Cramer's Rule3.5 Solutions of Linear Systems by Matrix Inverses3.6 Solutions to Linear Systems by Gaussian Elimination and Gauss-Jordan Reduction		Week 10 – 12	Seatwork Board work Lecture and Discussion Practice Exercises					

Week 13

- Linear Inequalities
 4.1 Linear Inequality in One Variable
 4.2 Linear Inequality in Two Variables
 4.3 Systems of Linear Inequalities in 2 Variables

Seatwork Board work Lecture and Discussion