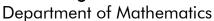


DE LA SALLE UNIVERSITY

College of Science





ALGECON– College Algebra for Economics Students

Prerequisite:	Prerequisite to:
Instructor:	Contact details:

Course Description

This course is designed for Economics students to provide them with a solid and working knowledge of pre-Calculus Algebra. The course tackles the real number system, basic algebraic operations on polynomials, algebraic fractions and radicals, functions and relations, different methods of solving equations, linear inequalities and system of linear equations.

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)

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Learning Outcome
At the end of the course, the students should be able
to understand and explain the basic concepts of
algebra.

Final Course Output

As evidence of attaining the above learning outcomes, the student is required to submit the following during the indicated dates of the term.

Learning Outcome	Required Output	Due Date
At the end of the course, the students should	Prior to each quiz, a student must	On the day
be able to understand and explain the basic	submit solutions to the assigned	of the quiz
concepts of algebra.	items.	

Rubric for assessment

The following rubric will be used for grading students' rewritten solutions. The new quiz score will be obtained by adding ORIGINAL QUIZ SCORE and 20% of the REWRITTEN SCORE. Note that students will only rewrite items that they did not get perfectly

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CRITERIA	Excellent (4)	Good (3)	Satisfactory (2)	Needs Improvement (1)
Content and Organization (50%)	In-depth and insightful discussion in addition to score	Logical sequencing of information throughout.	Logical sequencing of information most of the time.	Information presented with little organization.
	3 performance.	Sufficient supporting details.	Details are given but inadequate to support the topic.	Most of the details are irrelevant.
Knowledge of Topic(30%)	Concepts in Algebra are presented correctly. Mistakes are justified correctly.	A few concepts are incorrectly stated and some mistakes are not correctly justified.	Majority of the mistakes committed are not correctly justified.	No justification given.
Grammar (20%)	No error	Only one or two errors are committed.	Three or four errors are commited.	More than four errors are committed.

Additional Requirements

- Seatworks
- Quizzes (at least three)
- Boardwork
- Recitation

	FOR EXEMPTED	FOR STUDE FINAL I		Scale: 95-100%	4.0
	STUDENTS (w/out Final Exam)	with no missed quizzes	with one missed quiz	89-94% 83-88% 78-82% 72-77%	3.5 3.0 2.5 2.0
Average of quizzes	95%	65%	55%	66-71% 60-65%	1.5
Seatwork, Board Work, Assignments	5%	5%	5%	<60%	0.0
Final exam	-	30 %	40%	11	

Learning Plan			
Learning Outcome	TOPICS	WEEK NO.	Learning Activities
At the end of the course, the students should be able to understand and	1-1 Set and Basic Notation 1-2 Subsets and Counting 1-3 Operations on Sets	Week 1	Seatwork Boardwork Lecture and Discussion
explain the basic concepts of algebra.	2-1 The Algebra of Counting Numbers 2-2 Additive Inverses and Subtraction 2-3 Integers and Factorizations 2-4 Multiplicative Inverses and Division 2-5 Rational and Irrational Numbers 3-1 Addition of Algebraic Expressions 3-2 Multiplication of Algebraic Expressions 3-3 Division of Algebraic Expressions 3-4 Special Products 3-5 Factors and Factoring	Week 2 Week 3 - 4	Practice Exercises
	3-6 Simplification of Fractions 3-7 Addition of Fractions 3-8 Multiplication and Division of Fractions 3-9 Integral and Zero Exponents 3-10 Rational Exponents 4-1 Order Axioms for Real Numbers 4-2 A One-dimensional Coordinate System 4-3 A Two-dimensional Coordinate System 4-4 The Distance Formula and the Slope Formula 4-5 The Circle 5-1 Functions and Relations 5-2 Graphical Representation of Functions and Relations	Week 5 – 8	Seatwork Boardwork Lecture and Discussion Practice Exercises

Form 8-8 Equations Involving Radicals 8-10 Solution of Two Linear Equations 8-11 Algebraic Solutions of Three Linear Equations 8-12 Solution of One Linear and One Quadratic Equation		8-8 Equations Involving Radicals 8-10 Solution of Two Linear Equations 8-11 Algebraic Solutions of Three Linear Equations 8-12 Solution of One Linear and	Week 9 - 13	Seatwork Boardwork Lecture and Discussion Practice Exercises
FINAL EXAMINATION Week 14		·	Week 14	

References

Modern College Algebra, (3rd edition) by Vance

College Algebra with Trigonometry, (7th edition) by R.A. Barnett, M.R. Ziegler and K.E. Byleen

College Algebra, (4th edition) by Fuller

College Algebra (10th edition) by P. Rees, F. Sparks and C. Rees Algebra for College Students (4th edition) by Mark Dugopolsky

College Algebra and Trigonometry by L. Leithold

Succeeding with College Algebra by Jerome E. Kaufmann & Karen Schwitters (2010) Cengage Learing/Philmont Academic Solutions

Class Policies

- 1. The required minimum number of quizzes for a 3-unit course is 3, and 4 for 4-unit course. No part of the final exam may be considered as one quiz.
- 2. Cancellation of the lowest quiz is not allowed even if the number of quizzes exceeds the required minimum number of quizzes.
- 3. As a general policy, no special or make-up tests for missed exams other than the final examination will be given. However, a faculty member may give special exams for
 - A. approved absences (where the student concerned officially represented the University at some function or activity).
 - B. absences due to serious illness which require hospitalization, death in the family and other reasons which the faculty member deems meritorious.
- 4. If a student missed two (2) examinations, then he/she will be required to take a make up for the second missed examination.
- If the student has no valid reason for missing an exam (for example, the student was not prepared to take the exam) then the student receives 0% for the missed quiz.
- Students who get at least 89% in every quiz are exempted from taking the final examination. Their final grade will be based on the average of their guizzes and other prefinal course requirements. The final grade of exempted students who opt to take the final examination will be based on the prescribed computation of final grades inclusive of a final examination. Students who missed and/or took any special/make-up quiz will not be eligible for exemption.
- 7. Learning outputs are required and not optional to pass the course.
- Mobile phones and other forms of communication devices should be on silent mode or turned off during class.
- Students are expected to be attentive and exhibit the behavior of a mature and responsible individual during class. They are also expected to come to class on time and prepared.

- 10. Sleeping, bringing in food and drinks, and wearing a cap and sunglasses in class are not allowed.
- 11. Students who wish to go to the washroom must politely ask permission and, if given such, they should be back in class within 5 minutes. Only one student at a time may be allowed to leave the classroom for this purpose.
- 12. Students who are absent from the class for more than 5 meetings will get a final grade of 0.0 in the course.
- 13. Only students who are officially enrolled in the course are allowed to attend the class meetings.

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Approved by:
Dr. Arturo Y. Pacificador, Jr. Chair, Department of Mathematics
September 2013 / KJECarpio/