

# LINCOLN UNIVERSITY

## Math 10

### College Mathematics

Summer 2009

Tuesday/Thursday 12:30 pm – 3:15 pm

Textbook: College Algebra (Lial/Hornsby/Schneider Series) by Margaret L. Lial, John Hornsby, David I. Schneider, 9<sup>th</sup> edition; ISBN-10: 0321227573

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## COURSE DESCRIPTION

Elementary algebra: fundamental algebraic concepts and operations, number bases, linear equations and inequalities, functions, graphing. Intermediate algebra: study of algebra including exponents and radical, polynomials, geometric series, rational expressions, quadratic equations, and logarithms. (3 units)

## COURSE OBJECTIVES/OUTCOMES

Upon completion of the course students will have developed the following skills:

- Learn the basic concepts and techniques of elementary and intermediate algebra
- Apply learned concepts in solving math problems.
- Demonstrate the ability to combine concepts and procedures to successfully address relevant math-related situations.
- Use mathematics to solve business and other real-world problems.

## GRADE ALLOCATION

A: 90% - 100%

B: 80% - 89%

C: 70% - 79%

D: 60% - 69%

F: Below 60 %

## GRADE DETERMINATION

Assessment	Percent of Grade
Attendance and participation	10
Homework	10
Quizzes	10
Midterm	30
Final exam	40
Total	100

## COURSE REQUIREMENTS

Students will be expected to attend all classes, be on time, work the assigned homework, take all quizzes and test assigned date, and turn in projects and homework in a timely manner. Homework will be assigned on a daily basis. It is expected that each student does his or her homework before the next class period. Written mini quizzes will be given every week.

## COURSE SCHEDULE

Lectures	Topic	Chapters
1	Algebraic expressions	Ch.1
2	Equations and inequalities	Ch.2
3	Relations, functions, and graphs	Ch.3
4	Polynomial and Rational Functions	Ch.4
5	Polynomial and Rational Functions (cont.)	Ch.4
6	Review Chapters 1-5	
7	Midterm exam	
8	Exponential and logarithmic functions	Ch.5
9	Systems of equations and inequalities	Ch.6
10	Analytic geometry	Ch.7
11	Analytic geometry (cont.)	Ch.7
12	Further topics in algebra	Ch. 8
13	Review Chapters 5-8	
14	Final Exam	

Note: this syllabus is subject to change.