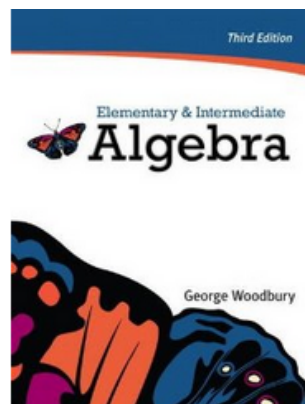# REEDLEY COLLEGE: Spring 2015

Course: Math 103 INTER ALGEBRA
Section: 55301
Units: 5
Hours: MW: 3:30 pm - 5:45 pm
Room: SOC 31
Instructor: Hyangsug "Suely" Lee
Instructor Email: suely.lee@reedleycollege.edu

REQUIRED TEXTBOOK

Elementary and Intermediate

Algebra, George Woodbury, 3rd ed

COURSE DESCRIPTION:

This course will deal with many algebraic concepts including: equations and inequalities in two variables, rational exponents and roots, quadratic functions, exponential and logarithmic functions and conic sections

Subject Prerequisites: Math 201 (requires C grade or better), or equivalent

Advisories: Eligibility for English 126_Reading Skills for College

COURSE OUTCOMES:

Upon completion of this course, students will be able to:

    A. Simplify and/or factor mathematical expressions into forms more conducive to analysis.
    B. Solve equations introduced in Intermediate Algebra(linear, quadratic, exponential, logarithmic, and radical).
    C. Graph functions and relations introduced in Intermediate Algebra(linear, quadratic, exponential, logarithmic, and radical).
    D. Apply Intermediate Algebra topics(linear, quadratic, exponential, logarithmic, and radical functions) to solve real-life problems.

COURSE OBJECTIVES:

In the process of completing this course, students will:

    A. Use the properties of lines and linear inequalities, and apply operations on functions.
    B. Simplify radical and complex expressions and perform operations on them.
    C. Solve quadratic equations using various techniques including factoring and quadratic formula,

and graph parabolas.
D. Apply the properties of exponents and logarithmic functions to change the base of a logarithm.
E. Manipulate and graph equations of conic sections.
F. Optional Topics(if time permits)
* Generalize arithmetic and geometric sequences and find the kth term of a binomial expansion.

APPROPRIATE READINGS:
A. Sample Text Title:
I. McKeague *Elementary & Intermediate Algebra*, ed. 3rd Thomson; Brooks/Cole, 2008
B. Other Readings
_ Global or international materials or concepts are appropriately included in this course.
_ Multicultural material and concepts are appropriately included in this course.

REQUIRED MATERIALS:
Two spiral grid-paper, notebooks, 3-Ring Binder, pencils, eraser, ruler, Scientific Calculator (No TI-89 or cell phones with similar features)

HOMEWORK/PROJECTS(MyMathLab)
I. Homework is assigned on a regular basis. All homework must be submitted on the due date at the beginning of the class.
(You are allowed to work on homework problems together, but make sure the work you submit is that of your own!)
II. If done by hand, every assignment must be shown legibly.
III. Late homework (by hand) can only receive 50% of the total points possible with excuse.
IV. If you are absent, check the assignment with your classmate or **check MyMathLab or check current homework information on Blackboard** or send an email to me.

ATTENDANCE:
Students are expected to attend all class meetings, be on time, and be in class the ***entire*** class session. Attendance will be checked at the beginning of each class. Please sign up on Attendance sheet every session. 2 absences in a roll without excuses need to be reported before class by email also prepared to take a quiz for the materials that was covered in class.
Excessive absences may result in the instructor dropping you from the course. I consider **three absences excessive.**
 If you decide to drop the course, you must make the drop official at the Administrations and Records office.

ACADEMIC HONESTY:
Cheating and Plagiarism are not acceptable.
- Please make sure any work produced is of your own.
- Two identical tests will be considered as both students' cheating
- If you are having trouble in the course, come talk to me FOR HELP.

CLASSROOM ETIQUETTE(Rules):

- Students should cooperate to make the best learning environment for the class.
- If arriving late or leaving early, please do so in a manner that avoids disrupting the class.
- All electronic devices are to remain off during lecture. In particular, **cell phones are to remain on silent and put away with vibrate feature turned off during class. There will be no texting or answering of phone calls during class.**
- If you miss class, it is your responsibility to find out what you've missed.
- All electronic devices are to remain off during lectures. In particular, cell phones are to remain on silent and put away with vibrate feature turned off during class. There will be no texting or answering of phone calls during class.
- As you find yourself working with classmates, be respectful of individual differences.
- Refrain from using vulgar language including, but not limited to racial, gender slurs.
- Personal needs (i.e., using the restrooms) must be taken care of before class begins.
- No respect class rule will result in zero participation point.

EXAMS/QUIZZES :

- 7 of 1hr Chapter Exams   (A worst score out of the 7 quizzes will be dropped)

- 7 Quizzes (Individual & Group Quizzes) (A worst score out of the 7 exams will be dropped)

FINAL EXAM: Mon., May 18, 2015; 3:00~4:50 pm

GRADING:

A 90 - 100; **B** 80 - 89; **C** 70 - 79; **D** 55 - 69; **F** 0 - 54

Class participation : 5%
Attendance : 5 %
Homework : 10 %
6 Quizzes : 20 %
6 Tests : 40% In-class
Final Exam: 20%

SPECIAL NEEDS REQUESTS:
If you have a verified need for an academic accommodation or materials in alternate media ((i.e. Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Math 103 Elementary Algebra: Course Outline and Contents:

Topic	Objectives
A. Equations and Inequalities in Two Variables	1. Slope of a line 2. The equation of a line 3. LInear inequalities in two variables 4. Operations on functions
B. Rational Exponents and Roots	1. Rational exponents 2. Simplified form of r radicals 3. Arithmetic operations on radical expressions 4. Equations with radicals 5. Complex numbers
C. Quadratic Functions	1. Quadratic equations 2. Graphing parabolas *3. Quadratic inequalities
D. Exponential and Logarithmic Functions	1. Exponential Functions 2. The Inverse of a function 3. Logarithms and their properties 4. Exponential and logarithmic equations and change of base.
E. Conic Sections	1.Parabolas 2. Circle 3. Ellipses and Hyperbolas
*F. Sequences and Series	*1. Arithmetic and geometric sequences *2. Series *3. Binomial Expansion

* Optional Topics(if time permits)

ACADEMIC CALENDAR Spring 2015:

<u>**Important Dates**</u>:

Jan 12 (M)	Start of Fall 2014 semester
Jan 19 (M)	Martin Luther King, Jr. Day observed (No classes held, campus closed)
Jan 23 (F)	Last day to request an Enrollment Fee Refund
Jan 30 (F)	Last Day to register for a full-term class for FALL 2014
Jan 30 (F)	Last day to drop to avoid a "W" (in Person)
Feb 1 (S)	Last day to drop to avoid a "W" (on WebAdvisor)
Feb 6 (F)	Last day to change a class to/from a Pass/No-Pass grading basis
Feb 13 (F)	Lincoln Day observed (No classes held, campus closed)
Feb 16 (M)	Washington Day observed (No classes held, campus closed)
Mar 13 (F)	Last day to drop a full term class (in person) (letter grade assigned after this)
Mar 27 (F)	Deadline t file Intent to Graduate via WebAdvisor
Mar 30-Apr 2 (M-Th)	Spring Recess (No classes held, campus closed)
Apr 3 (F)	Spring Holiday observed (No classes held, campus closed)
May 18-22 (M-F)	Final Exam Week
May 22 (F)	End of Spring 2015 semester