Intermediate Algebra
Math 154A
Fall 2015 4 units

INSTRUCTOR: Cindy Littell

E-MAIL: ltcc.littellc@gmail.com

MEETING TIMES: **T, TH: 10:00am to 11:50am**

MEETING PLACE: **Room E106**

REQUIRED TEXT: Elementary and Intermediate Algebra, 5th Ed, by Elayn Martin-Gay

Homework log in: mymathlab.com

Course Code for Homework: littell00815

Course Description: MAT 154 is a continuation of MAT 152B and covers functions and inverses, exponential and logarithmic functions, sequences and series, and conic sections, quadratic equations, and systems of quadratic equations.

Prerequisite: A grade of "C" or better in Math 152B or equivalent or appropriate skills demonstrated through the Math Assessment process.

Students with disabilities must identify themselves to me within the first two weeks of class.

Accommodations for Students with Disabilities: Students requiring accommodations for a certain disability that may affect class performance are requested to schedule with a staff member at the DRC to discuss this during the first week of the quarter so that appropriate arrangements can be made. They only test and accept new students into the program during the first two weeks of each quarter, so don't put it off.

The **Math Success Center** (within A201) has free tutoring for all registered students. Please Log In and Out so that the facility gets the funds it needs to continue this free service.

Attendance and Etiquette: As a college student, you have voluntarily signed up for approximately 32 hours of Math a week this quarter. It is therefore important to remind you that missing four classes will result in being dropped for non-attendance. Our time in class is a time of learning and is to be respected as such; therefore, disruptive behavior will not be tolerated. A two-class expulsion will be applied for any disruptive behavior.

As a Courtesy to everyone in class, please turn off your cell phones. Thank you.

How to succeed in a Math class:
1. Come to **every** class meeting.
2. Arrive early, be prepared, and **take notes**.
3. **Ask questions**, especially if you don't understand a concept.
4. Do **more than** just the homework problems.
5. Take advantage of the free **tutoring service in the MSC**.
6. Study in groups and do your homework with a classmate.
7. Start preparing for exams at least one **week** in advance.
8. Do some math **every** day.

Dropping: In this class, it is your responsibility to drop the class in order to avoid an unwanted grade. The drop date schedule is printed on the back of the quarter schedule.

<u>**Student Outcomes**</u>
The successful student will:
1. Exhibit a proficiency in the topics covered in the course;
2. Engage in logical and critical thinking;
3. Read technical and graphical information; and
4. Demonstrate the solution to problems by translating written language into mathematical statements, interpreting information, sketching relevant diagrams, analyzing given information, formulating appropriate math statements, and checking and verifying results.

Grading: Your class letter grade will be based on the usual grading scale:
A: 90% and above, **B:** 80-89%, **C:** 70-79%, **D:** 60-69%, **F:** $\leq$59%

Homework	**150 points**
Weekly Quizzes	**150 points**
3 Exams	**450 points**
Comprehensive Final Exam:	**250 points**
Total	**1000 points**

Homework: All Homework assignments are online. Due Dates for each assignment are posted online. All Homework will be due by the next Tuesday's lecture. Late work accepted by permission only with a 15% deduction in score per week late.

Weekly Quizzes are online and are due by the first class of the following week. ***There are no make-up quizzes or extensions*** of the deadlines though they are all available from the first day of class and you have infinite tries to get a satisfactory score.

Exams: Exams are to be taken on the date scheduled unless you have a medical emergency. In such an event, please notify me as soon as possible to make arrangements and ***your score will be reduced 10% per school-day late***.

Non-graphing calculators are allowed during testing. Please practice them with the homework.

The Comprehensive Final Exam is on December 8th, 2015 at 11:00a.m.

Academic Integrity:

Homework may be done in groups with other students or with the help of the instructor or tutors, but each student must turn in their own work. Quizzes are to be done individually. Exams must be done by the student alone. Any Student who violates this rule will receive a zero on the Exam. A second offense will result in withdrawal, failing the course, or academic expulsion.

TENTATIVE SCHEDULE

Date	Section	Topic
Sep. 22		Introductions/ Syllabus
	4.4	3 x 3 systems of linear equations
Sep. 24	8.2	More functions
	8.3	Graphing functions
Sep. 29	11.3	Solving Quadratics
Oct. 1	11.4	Non-linear inequalities in one variable
Oct. 6	11.5	Quadratic Functions and Their Graphs
	11.6	Quadratic Graphing Continued
Oct. 8	12.1	Algebra and Composition of Functions
Oct. 13		Exam #1
Oct. 15	12.2	Inverse Functions
Oct. 20	12.3	Exponential Function
	12.4	Exponential Growth and Decay
Oct. 22	12.5	Logarithmic Functions
Oct. 27	12.6	Properties of Logarithms
	12.7	Logs: Common, Natural, change of base
Oct. 29	12.8	Exponential and Logarithmic Apps
Nov. 3		Exam #2
Nov. 5	13.1	The Parabola and the Circle
Nov. 10	13.2	The Ellipse and the Hyperbola
	13.3	Solving Non-linear systems of Equations
Nov. 12	13.4	Nonlinear Systems of Inequalities
Nov. 17	14.1	Sequences
	14.2	Series
Nov. 19	14.3	Arithmetic
Nov. 24	14.4	Geometric
	14.5	Pascal's triangle and the Binomial Theorem
Nov. 26		Thanks Giving Holiday
Dec. 1		Exam #3
Dec. 3		Review for Final
Dec. 8		COMPREHENSIVE FINAL