

# MATH 154A

## Winter 2016 LTCC

### Course Outline and Syllabus

<b>Instructor:</b>	Caren LeVine
<b>Meeting Venue:</b>	Room D 108 Tues/Thursday 6 – 7:50 pm
<b>Email:</b>	<a href="mailto:celevine@mail.ltcc.edu">celevine@mail.ltcc.edu</a>
<b>Office Hours (Library) BY APPOINTMENT</b>	
<b>Tuesday</b>	<b>Thursday</b>
5:30 – 6pm By Appointment	5:30 – 6pm By Appointment

#### **MAT 154A INTERMEDIATE ALGEBRA (Lecture 4, Lab 0, Units 4)**

**PREREQUISITE:** MAT 152B or MAT 152AA with a grade of “C” or better or equivalent

#### **Required Textbook:**

*Beginning and Intermediate Algebra Fifth Edition* by Elayn Martin-Gay.

**Required Software License:** It is required to have a software license for this class. Without a software license you will not be able to pass this class. You will need the software license to complete the first homework assignments, so it is best to get this as soon as possible. Students have two choices. The first is to purchase the textbook from the bookstore. The textbook comes with the license. The second choice is to purchase the license alone either from the bookstore or online. The license gives you access to the textbook online. This is a more economically reasonable choice, but is only recommended to students who have online access and feel comfortable reading a computer screen instead of a traditional book. Purchasing a used textbook without the software license is not an option for this class.

You enter a valid email address when you register on Course Compass ([www.coursecompass.com](http://www.coursecompass.com)).

**Course website:** [www.mymathlab.com](http://www.mymathlab.com)

**MAT 154A course id:** levine25708

For assistance: call 1-800-677-6337, Mon –Fri 12:00 PM to 8:00 PM EDT

Online assistance is available 24 hours every day at: <http://247pearsoned.custhelp.com>

#### **Course Overview:**

This course is a continuation of Math 152B. The course includes quadratic equations and functions and their applications, non-linear inequalities, operations and composition of functions, conic sections: parabolas, circles, ellipses and hyperbolas,

linear and non-linear systems of equations, inverse functions, exponential functions, logarithms, sequences and series, and the Binomial Theorem.

**Student Learning Outcomes:**

1. Apply the course topics to real-world situations.
2. Sketch and interpret the graphs of functions and relations introduced in intermediate algebra.
3. Simplify mathematical expressions into forms more amenable to analysis.
4. Provide solutions to equations using methods from intermediate algebra.

**Suggestions, Tips and Advice:**

- Class time is valuable. Arrive on time, be prepared having read the assigned reading and having completed any due assignments.
- Bring your notebook and your textbook to each class.
- Take notes in class.
- The textbook has been carefully selected. **Read it!**
- Practice. You must practice in order to succeed at math. Do some math every day.
- Get help in the Math Resource Center and with the tutors. Study with your classmates.
- Participation is critical in the learning process. The more you participate, the more you will remember and comprehend.

**Exams:**

There will be One Final Exam and 2 In Class Exams for this course. These will be traditional paper and pencil exams. Students are to bring pencils or pens, and paper to each exam. A scientific calculator is allowed. Questions may be multiple choice or open questions. On open questions, grading will be based on the progress towards the final answer, and the demonstration of understanding of the concept that is being tested, therefore work must be shown in detail. Any student who cannot make it to an exam may elect to take the exam up to two days before the exam is scheduled. **Without prior notice, no makeup exam will be given.**

**Quizzes:**

There will be 8 short online Quizzes. Before you take a quiz, make sure that you have done the guided exercises, read the textbook sections for the week, looked at the video(s), and received assistance from either a tutor or your instructor on any difficult topics. Please ask for help if you need it. If you do not take a quiz, a zero will be recorded for that grade. There is no time limit for the Quizzes online but cheating is unacceptable.

**Homework Assignments:**

Homework is due each Sunday by midnight (11:59pm). You will be using the MyMathLab website to work on your homework. You have three trials to complete the homework for a grade, with unlimited time. Feel free to consult a fellow classmate, a tutor, your instructor, or anyone else for assistance on the homework.

## Carnegie Unit Statement:

Students earn credits (or units) based upon the Carnegie unit standard which equates 1 unit of course credit to 3 hours of coursework per week (Title 5 § 55002.5). Thus, to earn 4 quarter units for a lecture course, you must attend and participate in 4 hours per week of “in-class” lecture and complete 8 hours per week of outside work (studying, reading, completing homework assignments, preparing for quizzes and examinations, etc.) for a total course workload of 12 hours per week.

### Evaluation Criteria:

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Grading will be based on your total scores from:

1 Final	160 points	40 %	90 % - 100 %	A
8 Quizzes	80 points	20 %	80 % - 90 %	B
2 Exams	80 points	20 %	70 % - 80 %	C
Weekly Homework	80 points	20 %	60 % - 70 %	D
<b>Total</b>	400 points	100 %	< 60 %	F

### NOTE: YOU MUST PASS THE FINAL EXAM IN ORDER TO PASS THE CLASS

No extra credit work will be assigned or accepted.

The letter grade assigned will be based on the following cutoffs:

### Help:

I want you to succeed and feel confident in this math course and future math coursework. I will help you along the way but it is up to you to ask for help. I will be available before class in the Library or outside the Math Success Center. You can make arrangements for help with math work by appointment as well. Please let me know if you have **any** difficulties or special needs. We have **tutoring** and a **Learning Assistance Center** available. We have the **Math Success Center** with tutors, computers and help available. We have a **Learning Disabilities Lab** available and I will accommodate any learning disability you may have to the best of my and the College's ability. If you find that you are lost or behind please do not hesitate to email me or talk to me before class.

**Accommodations for Students with Disabilities:** In compliance with accessibility laws, I am available at any time to discuss any accommodations any student requires for this class. Students are encouraged to contact LTCC DRC (<http://www.ltcc.edu/web/current-students/disability-resource-center>) for information and assistance. Students with disabilities who may need accommodations for this class are encouraged to notify me and contact the Disability Resource Center (DRC) early in the quarter so that reasonable accommodations may be implemented as soon as possible. Students may contact the DRC in room A205 or by phone at (530) 541-4660 extension 249.

Online tutoring: The link to the Tutoring & Learning Center (TLR) is: [http://www.ltcc.edu/web/new-students/tutoring\\_learning\\_center](http://www.ltcc.edu/web/new-students/tutoring_learning_center). For general questions, please contact us at TLCProctor@ltcc.edu, posada@ltcc.edu or call (530) 541- 4660 x740 or x744. The link to the Library is: <http://library.ltcc.edu/>

## **Library & Study Areas ext. 232:**

The 15,000 square foot high-tech library has been designed to give students a spacious, comfortable and stimulating environment. The new facility offers a variety of learning areas, including a half dozen group study rooms, an audio-visual viewing room, a fireside reading den, and study carrels overlooking the forest. The services and materials provided include 40,000 books, magazines, DVD's, CD's, videos, 25 computer stations, and wireless access. Please see the back of the schedule for the library hours.

### **A Word on Honesty:**

Cheating or copying will not be tolerated. People who cheat dilute the honest effort of the rest of us. **If you cheat on an exam you will receive an F.** Other college disciplinary action including expulsion might occur. Please don't cheat in this class. If you are having difficulty with the course, please see me.

#### **Academic Dishonesty and Plagiarism Statement:**

All submitted work for this course must be in your own words. Do not copy from the Internet or other sources nor allow someone else to do assignments for you. Papers that are plagiarized will receive a grade of zero. Papers and other submitted assignments that are similar in content will result in both students receiving a grade of zero. Academic dishonesty is a serious offense and will not be tolerated. Please do your own work at all times. If you have any questions please refer to the LTCC college catalog: Student Rights & Responsibilities - Academic Dishonesty and Plagiarism Policy; Disciplinary Actions, current catalog. The use of any electronic devices during quizzes/exams will be considered academic dishonesty and dealt with in accordance with the LTCC Student Catalogue-Academic Dishonesty policy.

## **Attendance and Participation:**

Class attendance is crucial for success in this course. Students will be held accountable for their attendance. Students who stop attending class may be dropped by the instructor or receive an F in the class.

Participation is defined as actively engaging in classroom discussion related to course material and thus required you to have done the reading assignments prior to class. It is through participation that each of you will have the additional opportunity to demonstrate your knowledge of the material. Participation also increases retention and understanding of the concepts.

### **Classroom Behavior and Etiquette**

You have enrolled in this college class voluntarily and I commend you for your efforts at further educating yourself, an admirable thing to do. I therefore assume that you are attending class to learn. My responsibilities include maintaining an effective learning environment in the classroom so that you may learn in this class.

I expect you to respect our class meetings as a time and place for learning. As such, disruptive behavior in the classroom will not be tolerated. If you elect to disrupt your classmates while they are trying to learn I will eject you from the class. (I may eject you for any inappropriate behavior.) You may not return to class for two class meetings. Before returning to class you must come see me.

Week	Date	Topics Covered
1	1/5	3.6 Functions
	1/7	4.4 Systems of Linear Equations 8.2 Graphs of Functions Quiz 1 Online
2	1/12	8.3 Transformations of Functions and Piecewise Functions
	1/14	11.3 Using Quadratic Methods to Solve Equations 11.4 Nonlinear Inequalities in One Variable Quiz 2 Online
	1/15	<b>Last day to drop with no record!</b>
3	1/19	No Class – Martin Luther King, Jr. Day
	1/21	11.5 Quadratic Functions and Their Graphs 11.6 Further Graphing of Quadratic Functions Quiz 3 Online
4	1/26	12.1 The Algebra of Functions; Composite Functions
	1/28	12.2 Inverse Functions Quiz 4 Online
5	2/2	12.3 Exponential Functions 12.4 Logarithmic Functions
	2/4	12.5 Properties of Logarithms Quiz 5 Online
6	2/9	12.6 Common Logarithms, Natural Logarithms, Change of Base 12.7 Exponential and Logarithmic Equations and Applications
	2/11	EXAM 1 IN CLASS 12.8 Problem Solving with Exponential and Logarithmic Eqns
7	2/16	No Class – Presidents' Day
	2/18	13.1 The Parabola and the Circle Quiz 6 Online
	2/19	<b>Last day to withdraw from the course with a W!</b>
8	2/23	13.2 The Ellipse and the Hyperbola
	2/25	13.3 Solving Nonlinear Systems of Equations Quiz 7 Online
9	3/1	14.1 Sequences
	3/3	14.2 Arithmetic and Geometric Sequences 14.3 Series Quiz 8 Online
10	3/8	14.4 Partial Sums of Arithmetic and Geometric Sequences
	3/10	EXAM 2 IN CLASS & Review
11	3/15	14.5 The Binomial Theorem
	3/17	Review
12	3/22	<b>Final exam</b> Wednesday 6 – 7:50 pm

