

**MATH 187A/B**  
**Winter 2015 LTCC**  
**Course Outline and Syllabus**

<b>Instructor:</b>	Caren LeVine
<b>Meeting Venue:</b>	Rm A206 MW 6pm – 8:25PM
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Office Hours (Library) BY APPOINTMENT	
Monday	Wednesday
3:30 – 4PM	3:30 – 4PM

**Class Schedule and Assignments (subject to revision):**

Week	Date	Topics Covered
1	1/5	1.1 Understanding Whole Numbers 1.2 Addition of Whole Numbers 1.3 Subtraction of Whole Numbers
	1/7	1.4 Multiplication of Whole Numbers 1.5 Division of Whole Numbers 1.6 Exponents and Order of Operations
2	1/12	1.7 Rounding and Estimation 1.8 Applied Problems 2.1 Understanding Fractions
	1/14	2.2 Simplifying Fractions 2.3 Improper Fractions and Mixed Numbers Review for Exam 1
3	1/19	<b>No Class – Martin Luther King, Jr. Day</b> <b>Quiz 1 (Sections 1.1 – 1.8) On-Line</b>
	1/21	2.4 Multiplication of Fractions and Mixed Numbers 2.5 Division of Fractions and Mixed Numbers 2.6 The Least Common Denominator <b>Exam 1 In Class (1.1 – 2.3)</b>
4	1/26	2.7 Addition and Subtraction of Fractions 2.8 Combining Mixed Numbers and Order of Operations
	1/28	2.9 Applied Problems Involving Fractions Review for Exam 2 <b>Quiz 2 (Sections 2.1 - 2.9) On-Line</b>
5	2/2	3.1 Decimal Notation <b>Exam 2 In Class (2.7 – 2.9)</b>

	2/4	3.2 Comparing, Ordering and Rounding Decimals 3.3 Addition and Subtraction of Decimals 3.4 Multiplication of Decimals
6	2/9	<b>Review for Final Exam</b>
	2/11	<b>187A Final Exam</b>
<b>week</b>	<b>date</b>	<b>187B Topics Covered</b>
7	2/16	<b>No Class – Presidents’ Day</b>
	2/18	3.5 Division of Decimals 3.6 Converting Fractions to Decimals and Order of Operations 3.7 Applied Problems Involving Decimals
8	2/23	4.1 Ratios (Read Only, No Homework) 4.2 Proportions 4.3 Solving Proportions 5.1 Understanding Percent
	2/25	5.2 Changing Between Percents, Decimals, and Fractions 5.3A Solving Percents Using an Equation 5.3B Solving Percents Using a Proportion <b>Review for Exam 1</b> <b>OnLine Quiz Due 3/1/15</b>
9	3/2	<b>Exam1 (3.5 - 3.7, 4.1-4.3, 5.3)</b> 5.4 Solving Applied Percent Problems
	3/4	5.5 Solving Commission, Percent of Increase and Decrease, and Interest Problems 9.1 Addition of Signed Numbers
10	3/9	9.2 Subtraction of Signed Numbers 9.3 Multiplication and Division of Signed Numbers 9.4 Order of Operations with Signed Numbers <b>Review for Exam 2</b> <b>OnLine Quiz Due 3/10/15</b>
	3/11	<b>Exam 2 (5.4 – 9.4)</b> 6.4 Converting Units of Measure 7.5 Square Roots
11	3/16	10.1 Variables and Like Terms 10.2 The Distributive Property 10.3 Solving Equations Using the Addition Property
	3/18	<b>Review for Final Exam</b>
	3/25	<b>Final exam Wednesday 6 – 8:25 pm</b>

## COURSE INFORMATION

### Required Textbook:

*Basic College Mathematics*, by Tobey and Slater, et al 7<sup>th</sup> Edition

**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 assignment and Quiz 1 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 187A course id: levine55158

MAT 187B course id: levine15182

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:

The purpose of this course is to teach students the skills of basic Arithmetic; In 187A, we will cover whole numbers, fractions, and an introduction to decimals. IN 187B we will further look at decimals and cover proportions, percent and fractions. There will be a strong emphasis on applying these skills to real-life problem solving.

In reality, you have probably already seen this material somewhere in your educational past but may have forgotten it or never really understood it when it was first presented. In this class, our goal is to fill in the gaps of your knowledge about arithmetic and to help you get the “big picture”.

### 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.

**Student Learning Outcomes:**

1. Perform arithmetic operations with whole numbers, fractions, and decimals.
2. Translate written language into mathematical statements.
3. Apply the concepts in the course to real-life situations.
4. Apply study skills learned in this class to studying in this class.

**Exams:**

There will be One Final Exam per course (187A & 187B). There will also be two In Class Exams per course. These will be traditional paper and pencil exams. Students are to bring pencils or pens, and paper to each exam. No calculators are allowed. 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:**

You will take two Quizzes Online per course. Before you take the 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. Quizzes will be taken online through MyMathLab. The Online quizzes must be completed by midnight (11:59pm) on the day that it is due. There is no time limit for the Quizzes 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.

**Evaluation Criteria:****MAT 187A**

Grading will be based on your total scores from:

1 Final Exam	100 points	40 %
2 Quizzes On-Line	50 points	20 %
2 Exams In Class	50 Points	20 %
Homeworks	50 points	20 %
<b>Total</b>	<b>250 points</b>	<b>100 %</b>

## **MAT 187B**

Grading will be based on your total scores from:

1 Final Exam	100 points	40 %		
2 Quizzes On-Line	50 points	20 %		
2 Exams In Class	50 Points	20 %		
Homeworks	50 points	20 %		
<b>Total</b>	250 points	100 %	90 % - 100 %	A
			80 % - 90 %	B
			70 % - 80 %	C
			60 % - 70 %	D
			< 60 %	F

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.

### **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.

### **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.