

MAT 187A/B BASIC ARITHMETIC

Winter 2016

TIME AND LOCATION: Tuesday and Thursday 10:00 AM - 12:25 PM in A206

INSTRUCTOR: Wynn Walker

E-MAIL: walker@ltcc.edu

OFFICE HOURS:

Monday 1:00 PM – 2:00 PM **LOCATION: A272**

Wednesday 1:00 PM – 2:00 PM **LOCATION: outside Math Success Center**

Tuesday and Thursday 9:00 AM – 10:00 AM, 12:45 PM - 1:15 PM
LOCATION: outside Math Success Center

OR BY APPOINTMENT

TEXTBOOK (OPTIONAL): Basic College Mathematics by Tobey & Slater, 7th Edition

REQUIRED SOFTWARE LICENSE: It is required to have a software license to use the software MyMathLab in this class. You must have a valid e-mail address to use the on-line curriculum. Students have two choices. The first choice is to purchase the textbook from the bookstore. The textbook comes with the software license. Note: If you purchase a used textbook, it may not have a valid course access code. Be VERY careful when acquiring the text. The second choice is to purchase the license alone either from the bookstore or online at pearsonmylabandmastering.com. The license gives you access to the textbook online. This is a more economical choice, but is only recommended to students who have online access and feel comfortable reading a computer screen instead of a traditional book.

To access our class page, go to pearsonmylabandmastering.com and register

using your student access code and the course ID for this class:

MAT187A course ID: **walker85098**

MAT187B course ID: **walker54317**

For assistance with MyMathLab: You may get help by calling 1-800-677-6337 during the following hours: Mon – Fri 5:00 AM – 5:00 PM & Sunday 2:00 PM – 9:00 PM. Online assistance is available 24 hours every day at: 247pearsoned.custhelp.com

COURSE DESCRIPTION: The purpose of this course is to teach students the skills of basic arithmetic; in particular we will cover whole numbers, fractions, and an introduction to decimals. Some of this material you have probably seen in your prior education but you may have forgotten it or never really understood it when it was first presented. In this class, the goal is to fill in gaps of your knowledge about arithmetic and to help you get the “big picture” so that it will all fit together in a way which makes sense to you and that so that you will be able to apply it to “real life” problems. This course will include a component of study skills to assist you in being successful in this math class and others which you will take in the future.

This is two six-week classes (each receiving its own grade):

MAT187A covers whole numbers, fractions and an introduction to decimals.

MAT 187B covers decimals, percents, and an introduction to algebra.

PREREQUISITE: There is no prerequisite for this class.

STUDENT LEARNING OUTCOMES:

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

GRADING POLICY: MAT187A

Exam 1 (Chapters 1-2) 15%

Exam 2 (Chapters 3-5) 15%

Homework 30%

Daily Quizzes 15%

Study Skills Component 5%

Final (Cumulative) 20%

GRADING POLICY: MAT187B

Exam 1 (Chapters 1-2) 15%

Exam 2 (Chapters 3-5) 15%

Homework 30%

Daily Quizzes 15%

Final (Cumulative) 25%

Your letter grade will be based on your percentage of the total points.

1. A 90-100%
2. B 80-89%
3. C 70-79%
4. D 60-69%
5. F less than 60%

You can check your grade any time online by accessing the grade book in MyMathLab.

IN CLASS QUIZZES: There will be short quizzes every day starting at 2 minutes after the class begins and ending 5 minutes after the class begins. Quizzes cannot be made up.

ATTENDANCE AND CLASS PARTICIPATION POLICY: Students must attend all classes and arrive on time. At the beginning of each class a very short quiz will be given which will end at exactly five minutes after the class begins. I may drop a student if they miss the first class meeting if there are students who are on a waiting list to enroll in this class. Also, I may drop a student from the class whenever their total absences exceed two more than the number of times that a class meets per week. Regarding class participation, from time to time groups of people will be called up to the board to share their answers to problems worked on during class. I feel that this active engagement process is essential in order to successfully learn math.

HOMEWORK: Homework is to be completed online with MyMathLab. Each section covered will have a homework assignment. The homework assignments will be due at 11:59 PM on Monday nights. However, it is NOT RECOMMENDED that you wait until that time to work on the homework. The homework assignments are your chance to practice the material covered in class. It is YOUR responsibility to make sure you are getting the information from each section. At the beginning of class, I will go over homework questions from the previous day's material. Other questions will be addressed outside of class or in office hours. Late homework will be accepted one class period beyond the due date, with a 50% penalty, no exceptions. Late homework will not be accepted after more than one class after the due date.

STUDY SKILLS ASSIGNMENT: There will be a study skills assignment for MAT187A. For this assignment, you will first meet with a counselor, and determine an educational plan. You will then turn in your educational plan along with a one paragraph typed summary of the meeting you had with the counselor.

EXAM POLICY: Students are to bring a pencil and blank scratch paper to each exam. Grading will be based on progress towards the final answer, and the demonstration of understanding of the concept that is being tested. The more you show me with steps and detail, the better your chances for partial credit. You can use one 3x5 notecard front and back, for exams and the final.

MAKE-UP POLICY: There are no make-ups for quizzes. No exams may be taken after their scheduled time. If a student will be unable to take an

exam at the scheduled time, he or she must take the exam prior to the scheduled time. Students must contact the instructor in advance of the examination in order to arrange a time to take any exam early. THE FINAL MUST BE TAKEN AT THE SCHEDULED TIME.

CALCULATORS: Calculators are not allowed in this course.

CELL PHONES: Cell phones and all other electronic devices must be turned off while class is in session. For any student whose cell phone goes off during a quiz or exam a 5% penalty will be applied to their quiz or exam score.

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 a quiz, exam, or project you will receive a 0 for that assignment. Also, I may refer any student who is caught cheating for further disciplinary action. If you are having difficulty with the course, please contact me.

TUTORING: Free tutoring is available in the Math Success Center (MSC). The MSC is located in the Tutoring and Learning Center (TLC) in A201.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:

If there is anyone in this class who has need for test-taking or note-taking arrangements through the Disabilities Resource Center, please feel free to come and discuss this with me. Students with disabilities who may need accommodations for this class are encouraged to notify the instructor 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 by visiting the Center (located in room A205) or by phoning 541-4660, ext. 249 (voice) or 542-1870 (TTY for deaf students). All information will remain confidential.

HOW TO SUCCEED IN A MATH CLASS: Here are some tips for successfully passing a math class:

I) Come to every class session. Be prepared, and plan on participating.

II) Do your homework. Remember that what I assign is what I consider a bare minimum. If you need more practice, do it.

III) Read the book.

IV) Make use of available tutors and my office hours. You will find tutors who know the subject matter in this course at the Math Success Center (MSC).

V) Do math every day. Math is just like everything else: if you don't practice, you become rusty.

Tentative Lecture Schedule and Homework Assignment Due Dates for MAT 187A

The following is a tentative schedule. If things change (it is very likely), I will let you know. The Sections refer to the sections in the paper copy and online text book.

WEEK 1:

1/5 Introductions & Syllabus

Section 1.1: Understanding Whole Numbers

Section 1.2: Addition of Whole Numbers

Section 1.3: Subtraction of Whole Numbers

Discuss MyMathLab

1/7 Section 1.4: Multiplication of Whole Numbers

Section 1.5: Division of Whole Numbers

Section 1.6: Exponents and Order of Operations

Online Homework (1.1-1.6) due Monday Jan 11 at 11:59 PM

Online Quiz 1 due Monday Jan 11 at 11:59 PM

WEEK 2:

1/12 Section 1.7: Rounding and Estimation
Section 1.8: Applied Problems
Section 2.1: Understanding Fractions

1/14 Section 2.2: Simplifying Fractions
Review for Exam 1

Online Homework (1.7, 1.8, 2.1, 2.2) due Mon Jan 18 at 11:59 PM

WEEK 3:

1/19 Section 2.3: Improper Fractions and Mixed Numbers
Exam 1 (covers Sections 1.1 - 1.8),

1/21 Section 2.4: Multiplication of Fractions and Mixed Numbers
Section 2.5: Division of Fractions and Mixed Numbers
Section 2.6: The Least Common Denominator

Online Homework (2.3-2.6) due Monday, January 25 at 11:59 PM

Online Quiz 2 due Monday Jan 25 at 11:59 PM

WEEK 4:

1/26 Section 2.7: Addition and Subtraction of Fractions
Section 2.8: Combining Mixed Numbers and Order of Operations

1/28 Section 2.9: Applied Problems involving Fractions
Review for Exam 2

Online Homework (2.7-2.9) due Monday, February 1 at 11:59 PM.

Study Skills Assignment is due Tuesday, February 2 at the beginning of class.

WEEK 5:

- 2/2** Section 3.1: Decimal Notation
Exam 2 (covers Sections 2.1-2.9)
- 2/4** Section 3.2: Comparing, ordering, and rounding decimals.
Section 3.3: Addition and Subtraction of Decimals
Section 3.4: Multiplication of Decimals

Online Homework (3.1-3.4) due Monday, February 8 at 11:59 PM.

WEEK 6:

- 2/9** **catch up and** Review for Final Exam
- 2/11** Final Exam (Chapters 1, 2, 3.1-3.4)

Tentative Lecture Schedule and Homework Assignment Due Dates for MAT 187B

The following is a tentative schedule. If things change (it is very likely), I will let you know. The Sections refer to the sections in the paper copy and online text book.

WEEK 7:

- 2/16** Section 3.5: Division of Decimals
Section 3.6: Converting Fractions to Decimals, Order of Operations
Section 3.7: Applied Problems Involving Decimals
- 2/18** Section 4.1: Ratios (read this section, no homework)
Section 4.2: Proportions

Section 4.3: Solving Proportions
Section 5.1: Understanding Percent

Online Homework (3.5-3.7, 4.2-4.3) due Monday, February 22 at 11:59 PM.

Online Quiz 1 due Monday, February 22 at 11:59 PM

WEEK 8:

2/23 Section 5.2: Changing between percent, decimals, and fractions
Section 5.3B: Solving percent problems using a proportion
Section 5.3A: Solving percent problems using an equation

2/25 Section 5.4: Solving applied percent problems
Section 5.5: Solving commission problems, percent of increase or decrease problems, and interest problems

Online Homework (5.1-5.4) due Monday, February 29 at 11:59 PM.

WEEK 9:

3/1 Section 9.1: Addition of signed numbers
Section 9.2: Subtraction of signed numbers
Review for Exam 1

3/3 Section 9.3: Multiplication and Division of Signed Numbers
Exam 1 (3.5-3.7, 5.1-5.5)

Online Homework (5.5, 9.1-9.3) due Monday, March 7 at 11:59 PM.

Online Quiz 2 due Monday, March 7 at 11:59 PM

WEEK 10:

3/8 Section 9.4: Order of Operations with signed numbers
Section 7.5: Square roots
Section 6.4: Converting units of measure

3/10 Section 10.1: Variables and Like Terms
Review for Exam 2

Online Homework (9.4, 7.5, 10.1) due Monday March 14 at 11:59 PM.

Online Quiz 3 due Monday March 14 at 11:59 PM.

WEEK 11:

3/16 Section 10.2: The distributive property
Section 10.3: Solving equations using the addition property
Exam 2 (9.1-9.4, 7.5)

3/18 Section 10.4: Solving equations using the multiplication property
Section 10.5: Solving equations using the distributive, multiplication,
and addition properties

Review for final exam

Online Homework (10.2-10.5) due March 21 at 11:59 PM

WEEK 12:

3/22 FINAL 11:00 – 12:50 AM: NOTE THE DIFFERENT TIME: (cumulative. Covers Sections 3.5-3.7, 5.1-5.5, 6.4, 7.5, 9.1-9.4, 10.1-10.5) You may bring an 8.5x11 single side note card.