MAT 187A/B – BASIC ARITHMETIC

Spring 2013

Course ID	Room	Unit	Days	Start Time	End Time
MAT 187A-1	A206	2.5	T, TR	10:00 AM	12:25 PM
MAT 187B-1	A206	2	T, TR	10:00 AM	11:50 AM

INSTRUCTOR: Helen Shen

PHONE: 530-541-4660, Extension 364

E-MAIL: shen@ltcc.edu

OFFICE HOURS: Room A204
Mon. & Wed.   10:40 – 11:00 AM & 12:40 – 2:00 PM
Tue. & Thurs.   12:30 – 1:00 PM
Fri.   10:40 – 11:00 AM & 12:40 – 1:00 PM

LTCC MATH PAGE: http://www.ltcc.edu/academics.asp?scatID=5&catID=34

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

REQUIRED SOFTWARE LICENSE: It is <u>required</u> to have a software license to use the software MyMathLab in this class. Students have *two choices*. The *first choice* is to purchase the textbook from the bookstore. The textbook comes with the software license for an additional cost of approximately $5. The *second choice* is to purchase the license alone either from the bookstore or online at coursecompass.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. If you purchase a used textbook, you will also need to purchase the software license. The software license is valid as long as the student uses the same textbook; the student may need to call the tech support to obtain another access code if the student takes the same class again later.

We have changed to a new edition of the textbook. Please see me if you failed the mat187A/B previously in the winter 2012 with the old 6th Edition access code to MyMathLab.

Course website: www.mymathlab.com
Mat187A <u>course id</u> is **shen00657**
Mat187B <u>course id</u> is **shen41693**
<u>For assistance</u> 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

COUSE 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. 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" so that it will all fit together in a way which makes sense to you and that you are able to apply it to "real life" problems. This course is an extended version of Math 187A in which we 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 actually <u>two six-week classes</u> (each receiving its own grade):
➢ <u>**Math 187A**</u> covers whole numbers, fractions, and an introduction to decimals.
➢ <u>**Math 187B**</u> covers the rest of decimals, percents, and an introduction to algebra.

CALCULATORS:	Calculators are not allowed in this class on exams or the final.
TUTORING:	Tutoring is available in the Math Success Center (MSC) in Room 201. Students will earn 0.5 point toward the total grade for every 10 hours in MSC or DRC. However, if any student misses two or more classes, no lab credit will be granted.
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.

GRADING POLICY: Method of Student Evaluation

Mat187A

Homework (Online, 21 sections, 4 points each)	84 points
Study Skills Component (16 points)	16 points
Quizzes (Two, Online, 10 points each)	20 points
Exams (Two, In Class, 100 points each)	200 points
Final (Covers entire course content, 140 points)	140 points

And, **your final needs to be above 70 points.**

Mat187B

Homework (Online, 22 sections, 5 points each)	110 points
Quizzes (Three, Online, 10 points each)	30 points
Exams (Two, In Class, 100 points each)	200 points
Final (Covers entire course content, 140 points)	140 points

And, **your final needs to be above 70 points.**

Your letter grade will be based on your percentage.

A	90-100%
B	80-89%
C	70-79%

D	60-69%
F	less than 60%

CHECKING YOUR GRADE ONLINE: You can check your grade at any time in MyMathLab where you will be doing your homework. I will drop a student from the class if the student misses two classes or more and is unable to keep up with the learning.

HOMEWORK: Homework will be done online using MyMathLab. Due dates are listed for you when you go on line to do the assignments. Feel free to consult a fellow classmate, a tutor, your instructor, or anyone else for assistance on the homework. In addition, the computer will give you help with any problem, show you an example of a similar problem, and in some cases show you a video of someone teaching how to do that type of problem. You can work on homework after the due date but there are penalties for being late (see the make-up policy below). **If you don't have the internet connection at home, you can print them out in school at Math Lab, TLC, or D-wing Lab**, work the problem on the papers, and enter the answers in school.

QUIZZES: Quizzes will be taken online in MyMathLab. You can take each quiz up to three times, and the highest score will be used. Before you take the quiz, make sure that you have done your homework for the sections covered in the quiz, read the appropriate sections in the textbook, looked at the video(s), and received assistance from either the computer, or your instructor on any difficult topics. If you do not take a quiz on time, a zero will be recorded for that grade.

EXAM POLICY: 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 provide me the communication and detail in your answers; and I will give you the best grade I can based on that communication and answer. You can use one page of notes, front and back, for quizzes, exams and the final.

MAKE-UP POLICY: For **Exams and the Final**, make-up is possible if the instructor is **contacted in advance and the absence is excuse**; there is a 10% penalty if the absence is not excused. The make-up test needs to be taken before the next class. **Homework** will be accepted late up to one week after it is assigned for half credit; the online homework will be closed after the due date, and I will **reopen it next day morning** for another week for the late homework. **If you take the make-up test at TLC, you need to make an appointment at TLC 24 hours ahead by going to TLC, call (530)541-4660 x 740, or e-mail TLCProctors@ltcc.edu.**

COMMUNICATION POLICY: You can communicate with me either by coming to class or office hours, sending an e-mail, or calling on the phone. I will respond to your e-mails in a timely manner, and I will do my best to return your calls (you need to make sure to leave your number clearly). If you miss the class, it is your responsibility to pick up the class handouts or obtain the information either from your classmates or from me during the office hours.

- I have students work together to help each other. Please feel free to ask me directly if you like to work with me one-on-one.
- **Please come see me if you do not understand my policies.**
- Since English is my secondary language, please **be sure to ask** me if you have any difficulty to understand math due to my accent. I will be happy to clarify.

LEARNING DISABILITIES: If you have a certifiable learning disability that may affect your performance in this class, be sure to discuss your special needs with me during the first week of class. Learning disabilities will be accommodated.

HOW TO SUCCEED IN A MATH CLASS:
1) Read your textbook before class.
2) Choose to attend all class periods and be on time.
3) Exchange names and phone number with classmates.
4) Learn from your mistakes and be patient with yourself.
5) Don't be afraid of asking questions.
6) Know how to get help if you need it.
7) Organize your class materials.
8) Do your homework.
9) Check your work.
10) Hand in assignments on time.

ACADEMIC DISHONESTY (CHEATING): Academic dishonesty of any form will not be tolerated. Students caught cheating on exams or quizzes will receive a score of zero on the assignment for the first offense and a course grade of F for the second offense.

Cheating will be defined as but not limited to: (1) using any method to copy another's work on an exam, quiz, or final (2) directly copying another student's homework assignment (3) using any method other than your own honest efforts to complete exams, quizzes, the final, or homework assignments.
The following activities are NOT cheating: (1) collaborating with other students to complete homework assignments (2) working with math tutors or academic coaches to complete homework assignments (3) working with other students to study for exams, quizzes or the final.

FINANCIAL ASSISTANCE: If you need help paying for your books or other expenses, call our financial aid officer, America Ramirez, at 541-4660 x236, email her at Ramirez@ltcc.edu, or drop by A100.

WHERE TO FIND A COMPUTER ON CAMPUS: Computers are available for your use in the following locations on campus:
- Learning Assistance Center (LAC)* open Mon – Thurs 9 – 6, Fri 10 – 2, Sat 11 – 3.
- Math Success Center (MSC) * open Mon – Thurs 9 – 6, Fri 10 – 2, Sat 11 – 1.
- Open Labs in the D-wing which have available times posted by the door of each lab.
* Both the LAC and the MSC are in room 201.

Tentative Lecture Schedule for Math 187A

Be sure to use class time, office hours, and the MSC to get all of your questions answered.

Date	Section	Topic	Homework
T 4/9		Introductions & Syllabus	
	1.1	Understanding Whole Numbers	
	1.2	Addition of Whole Numbers	
	1.3	Subtraction of Whole Numbers	
		MyMathLab	
TR 4/11	1.4	Multiplication of Whole Numbers	**Homework on sections 1.1 – 1.6 is**
	1.5	Division of Whole Numbers	**due Monday, 4/15 at 11:30pm**
	1.6	Exponents & Order of Operations	

Quiz #1 (Sections 1.1 – 1.6) is due Wednesday, 4/17 at 11:30 pm

Date	Section	Topic	Homework
T 4/16	1.7	Rounding and Estimation	
	1.8	Applied Problems	
	2.1	Understanding Fractions	
TR 4/18	2.2	Simplifying Fractions	**Homework on sections 1.7 – 1.8 is**
		Review for Exam 1	**due Monday, 4/22 at 11:30pm**

Date	Section	Topic	Homework
T 4/23		**Exam #1 (Sections 1.1 – 1.8)** (1hr)	
	2.3	Improper Fractions & Mixed Numbers	
TR 4/25	2.4	Multiplication of Fractions & Mixed Numbers	
	2.5	Division of Fractions & Mixed Numbers	**Homework on sections 2.1 – 2.6 is**
	2.6	The Least Common Denominator	**due Monday, 4/29 at 11:30pm**

Quiz #2 (Sections 2.1 – 2.5) is due Monday, 4/29 at 11:30 pm

Date	Section	Topic	Homework
T 4/30	2.7	Addition & Subtraction of Fractions	
	2.8	Combining Mixed Numbers & Order of Operations	
TR 5/2	2.9	Applied Problems involving Fractions	**Homework on sections 2.7 – 2.9 is**
		Review for Exam 2	**due Monday, 5/6 at 11:30pm**
T 5/7		**Exam #2 (Sections 2.1 – 2.9)** (1hr)	**Turn in Study Skills Assignment (a paragraph summary of your meeting with counselor) On May 9** (16 pts)
	3.1	Decimal Notation	
TR 5/9	3.2	Comparing, Ordering & Rounding Decimals	
	3.3	Addition & Subtraction of Decimals	**Homework on sections 3.1 – 3.4 is**
	3.4	Multiplication of Decimals	**due Monday, 5/13 at 11:30pm**

T 5/14	Review for Final Exam
TR 5/16	**Final Exam (Chapters 1 & 2, and Sections 3.1 – 3.4)**

Be sure that you are registered for Math 187B which begins next week.

<u>Math 187A Study Skills Component</u>

Sixteen points of your grade in this class is based on the study skills component. You can earn those twenty-one points in the following manner:

> **Study Skills Assignment:** Individual Counseling, (**16 points**)   **Due May 9, 2013**
>> a. Make an appointment for one hour to meet with any counselor.
>> b. After your appointment, you need to write a half-page summary of your meeting with a counselor of what was most and least helpful about the counseling appointment. Turn this summary to Helen by Oct 18. Be sure to turn in your report **TYPED**.

Tentative Lecture Schedule for Math 187B

Be sure to use class time, office hours, and the MSC to get all of your questions answered.

Date	Section	Topic	Homework
T 5/21	3.5	Division of Decimals	
	3.6	Converting Fractions to Decimals & Order of Operation	
	3.7	Applied Problem Involving Decimals	
TR 5/23	4.1	Ratios (Read this section, No Homework)	
	4.2	Proportions	**Homework on sections 3.5 – 3.7, &**
	4.3	Solving Proportions	**4.2 – 4.3 is due Monday, 5/27 at**
	5.1	Understanding Percent	**11:30pm**

Quiz #1 (Sections 3.5 – 3.7 & 4.2 – 4.3) is due Wednesday, 5/29 at 11:30 pm

Date	Section	Topic	Homework
T 5/28	5.2	Changing between percents, decimals and fractions	
	5.3B	Solving percents using a	
	5.3A	proportion Solving percents using an equation	
TR 5/30	5.4	Solving applied percent problems	
	5.5	Solving commission, percent of increase or decrease, and interest problems	**Homework on sections 5.1 – 5.5 is due Monday, 6/3 at 11:30pm**

Quiz #2 (Sections 5.1 – 5.5) is due Wednesday, 6/5 at 11:30 pm

Date	Section	Topic	Homework
T 6/4	9.1	Addition of signed number	
	9.2	Subtraction of signed number	
		Review for Exam 1	
TR 6/6		**Exam #1 (Sections 3.5 - 3.7, 5.1 - 5.5)** (1hr)	
	9.3	Multiplication and Division of signed numbers	**Homework on sections 9.1-9.3 is due Monday, 6/10 at 11:30pm**
T 6/11	9.4	Order of Operations with signed numbers	**Homework on sections 9.4 & 6.4 is**
	6.4	Converting units of measure	**due Monday, 6/12 at 11:30pm**

Quiz #3 (Sections 9.1 – 9.4) is due Monday, 6/17 at 11:30 pm

Date	Section	Topic	Homework
TR 6/13	7.5	Square Roots	**Homework on sections 7.5 is due**
		Review for Exam 2	**Monday, 6/17 at 11:30pm**
T 6/18		**Exam #2 (Sections 6.4, 7.5, 9.1 - 9.4)** (50min)	

	10.1	Variables and Like terms	
	10.2	The distributive property	
TR 6/20	10.3	Solving equations using the addition property	**Homework sections 10.1 – 10.3 is**
	10.4	Solving equations using the division or multiplication property	**due Monday, 6/24 at 11:30pm**
	~~10.5~~	~~Solving equations using two properties~~	

T 6/25		Review for Final Exam
TR 6/27		**Final Exam (Sections 3.5 – 3.7, Chapter 5, Sections 6.4, 7.5, Chapter 9, & Section 10.1 – 10.3)**

This is the day that you will successfully complete Math 187B…. CONGRATUALTIONS!