Welcome to **BASIC ARITHMETIC**. I'm looking forward to helping you master these basic math skills and introducing you to the rigors of obtaining a college education. I hope my experience as an aerospace engineer and engineering manager will help you understand the value that mathematical knowledge can bring to your life and your career opportunities.

This syllabus covers <u>two consecutive six-week classes</u> (each receiving its own grade):

Course ID	Room	Unit	Days	Start Time	End Time
MAT 187A-04	A206	2.5	M, W	6:00 PM	8:25 PM
MAT 187B-04	A206	2	M, W	6:00 PM	7:50 PM

INSTRUCTOR: Bruce Brant

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OFFICE HOURS: TBD

LTCC MATH PAGE: http://www.ltcc.edu/web/academics/mathematics

<u>**REQUIRED**</u> **SOFTWARE LICENSE**:

- You must obtain a software license to use the software <u>MyMathLab</u> in this class. You will do most of your homework in this software. Your progress in the class (including your scores and overall grade) is maintained by, and can be accessed at any time in MyMathLab.
- Course website: www.mymathlab.com
- There are three ways to obtain your license:
  - The license is available for an additional fee when you purchase a <u>new</u> textbook
  - The license can be purchased separately at the bookstore
  - You can purchase the license on-line at the course website
  If you are having trouble getting the license in a timely manner, I recommend that you take advantage of the temporary license that Pearson offers so that you do not get behind in your work
- **MAT187A** course id is: **brant55224**,   **MAT187B** course id is: **brant43174**
- For technical support call 1-800-677-6337, Mon – Fri 12:00 PM to 8:00 PM EDT
- Online technical support is available 24 hours every day at: http://247pearsoned.custhelp.com

<u>**REQUIRED**</u> **TEXTBOOK**:
Beginning & Intermediate Algebra, by Elayn, Martin-Gay, **5**^th Edition.
Note that the online textbook available with your MyMatLab software license satisfies this requirement.

<u>**RESOURCES - CAMPUS COMPUTERS**</u> **-**   Learning Assistance Center (A201)
  -   Math Success Center (A201).
  -   Open Labs in the D-wing
  -   Library

<u>**RESOURCE - TUTORING AND LEARNING CENTER (A201):**</u> Includes the Math Success Center

BASIC ARITHMETIC is a college level math class. You will begin learning how college students take responsibility for their own learning in this course. The following behaviors have proven to be very effective for successful students.

- **Attendance**: You must be here to participate in in-class assignments and take advantage of problem solving tips and tricks, pre-test review material and other class discussions.
- **Class Preparation**: Read the chapter and do the homework <u>before </u>class so you can get your questions answered before we move on.
- **Attention**: Make the best use of your class time. Pay attention, participate/ask questions and take notes. <u>Cellphones are distracting and should be turned off during class</u>..
- **Practice**: Homework provides <u>one</u> opportunity for you to practice problem solving skills. Most of you will need additional practice – use the book as a resource for trouble areas.
- **Study**: Testing is your opportunity to prove you can solve problems using the concepts learned in this class. Be sure to prepare yourself for these scheduled events.

HOMEWORK: <u>Most</u> **Homework** is done online using MyMathLab. Homework is generally due by the next class after it is assigned. Specific due dates are listed below and posted on MyMathLab. There is a 10% per day penalty for late work.

The **Study Skills Assignment** consists of making an appointment for one hour to meet with a college counselor. After your appointment, write a half-page summary (typed) of your meeting explaining what was most and least helpful about the session.

<u>Additional</u> **Homework Projects** may be assigned in class throughout the term.

TESTING: All testing is done in class and graded by the instructor by hand. Electronic devices of any kind are prohibited during testing and their use will result in a score of zero.

NOTES: You are allowed to use one 3x5 card of notes (front and back) during exams. <u>No notes are allowed on quizzes.</u>

MAKE-UPS: - **Exams** can be made up for <u>excused absences</u> if I am <u>notified in advance</u> of the absence. Exams are made up in the TLC – it is your responsibility to make an appointment at least 24 hours in advance by visiting the TLC, calling (530)541-4660 x 740, or e-mailing: <u>TLCProctors@ltcc.edu</u>.

- **Quizzes** cannot be made up.

GRADING POLICY: Overall score based on:

Homework	20%
Quizzes	30%
Mid-Term	20%
Final	30%

Letter grade is based on overall score:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
Less than 60%	F

MAT 187A Class Schedule

Date	Sections	Topics	Homework Due
M 9/22		Class Introduction	**W 9/24, 6 PM**
	1.1	Understanding Whole Numbers	
	1.2	Addition of Whole Numbers	
W 9/24		Study Skills 1	**M 9/29, 6AM**
	1.3	Subtraction of Whole Numbers	
	1.4	Multiplication of Whole Numbers	
M 9/29	1.5	Division of Whole Numbers	**W 10/1, 6 PM**
	1.6	Exponents & Order of Operations	
		Quiz 1 (1.1-1.4)	
W 10/1		Study Skills 2	**M 10/6, 6 PM**
	1.7	Rounding and Estimation	
	1.8	Applied Problems	
M 10/6	2.1	Understanding Fractions	**W 10/8, 6 PM**
	2.2	Simplifying Fractions	
		Mid-Term review	
W 10/8	2.3	Improper Fractions & Mixed Numbers	**M 10/13, 6 PM**
		Mid-Term (1.1 – 1.8, 2.1 – 2.2)	
M 10/13	2.4	Multiplication of Fractions & Mixed Numbers	**W 10/15, 6 PM**
	2.5	Division of Fractions & Mixed Numbers	
	2.6	The Least Common Denominator	
W 10/15		Study Skills 3 – Assignment Due!	**M 10/20, 6 PM**
	2.7	Addition & Subtraction of Fractions	
	2.8	Mixed Numbers & Order of Operations	
M 10/20	2.9	Applied Problems Involving Fractions	**W 10/22, 6 PM**
	3.1	Decimal Notation	
		Quiz 2 (2.3 – 2.8)	
W 10/22	3.2	Comparing, Ordering, Rounding Decimals	**M 10/27, 6 PM**
	3.3	Addition & Subtraction of Decimals	
	3.4	Multiplication of Decimals	
M 10/27		**Review for Final Exam**	
W 10/29		**Final Exam (covers entire course)**	

MAT 187B Class Schedule

Date	Sections	Topics	Homework Due
M 11/3	3.5	Division of Decimals	**W 11/5, 6 PM**
	3.6	Converting Fractions to Decimals	
	3.7	Applied Problem Involving Decimals	
W 11/5	4.1	Ratios	**W 11/12, 6 PM**
	4.2	Proportions	
	4.3	Solving Proportions	
W 11/12	5.1	Understanding Percent	**M 11/17, 6 PM**
	5.2	Converting Decimals, Fractions, percent's	
		Quiz 1 (3.5 – 3.7, 4.12 – 4.3)	
M 11/17	5.3B	Solving %'s using a Proportion	**W 11/19, 6 PM**
	5.3A	Solving Percent's using an Equation	
		Mid-Term Review	
W 11/19	5.4	Solving Applied Percent Problems	**M 11/24, 6 PM**
		Mid-Term (3.5 – 3.7, 4.1 – 4.3, 5.1 – 5.3)	
M 11/24	5.5	Percent Applications	**W 11/26, 6 PM**
	9.1	Addition of Signed Numbers	
	9.2	Subtraction of Signed Number	
W 11/26	9.3	Multiplication and Division of Signed Numbers	**M 12/1, 6 PM**
	9.4	Order of Operations with Signed Numbers	
	6.4	Converting Units of Measure	
M 12/1	7.5	Square Roots	**W 12/3, 6 PM**
	10.1	Variables and Like Terms	
		Quiz 2 (5.4, 5.5, 9.1 – 9.4, 6.4)	
W 12/3	10.2	The Distributive Property	**M 12/8, 6 PM**
		Review for final exam	
M 12/8		**Final exam (covers entire course)**	**M12/8, 6 PM**

COURSE DESCRIPTION: Basic Arithmetic encompasses the foundational elements of math upon which so many things in our lives depend. Arithmetic also forms the basic building blocks for all higher mathematical study (required for many professional careers).
In MAT187A you will learn about three types of numbers: whole numbers, fractions and decimals. You will learn how to represent them, make computations with them and use them to solve "real world" problems.   In the process you will also learn and apply college level study skills.
In MAT187B you will deepen your understanding of what you learned in MAT 187A. You will learn how percents, fractions and decimals are related - including the use of ratios and proportions. You will learn how to manipulate positive and negative numbers, work with units of measure and compute square roots. And finally, you will be introduced to some of the elementary concepts of Algebra.

STUDENT LEARNING OUTCOMES:
1. Perform arithmetic operations with whole numbers, fractions, and decimals.
2. Translate written language into mathematical statements.
3. Apply basic arithmetic to solve real-life problems.
4. Apply study skills learned in this class to studying for this class.

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 your instructor and the Disability Resource Center (DRC) during the first week of class. Learning disabilities will be accommodated and all information will remain confidential.
The DRC is located in room A205. Or call 530-541-4660 ext. 249. TTY for hearing impaired – call 530-542-1870

ACADEMIC DISHONESTY (CHEATING): Academic dishonesty of any form will not be tolerated. Students caught cheating on exams or quizzes will receive a **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 homework, quizzes and exams.
 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) studying with other students for quizzes and exams.