

## **BASIC ALGEBRA (Part I)**

### **Math 152A**

**Spring 2015 (4 units)**

<b><u>INSTRUCTOR:</u></b>	Cindy Littell
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<b><u>MEETING TIMES:</u></b>	<b>Monday and Wednesday 9:00a to 10:50a</b>
<b><u>MEETING PLACE:</u></b>	<b>Room A251</b>
<b><u>REQUIRED TEXT:</u></b>	Elementary and Intermediate Algebra, 5 <sup>th</sup> Ed, by Elayn Martin-Gay
<b><u>COURSE CODE:</u></b>	littell16892

**Course Description:** This course is an introduction to algebra. I will be presenting the Real Numbers and their properties and operations, absolute value equations, simplifying algebraic expressions, linear equations and inequalities, applications with formulas, the rectangular coordinate system, graphing linear equations and inequalities, polynomials and their operations, integral exponents, scientific notation, and an introduction to functions. This course will connect math with the “real” world. It is my desire to reduce math anxiety and build self-confidence in every student by the end of this class.

**Prerequisite:** A grade of “C” or better in Math 187B or equivalent or appropriate skills demonstrated through the Math Assessment process.

**Accommodations for Students with Disabilities:** Students requiring accommodations for a certain disability that may affect class performance are requested to schedule with a staff member at the DRC to discuss this during the first week of the quarter so that appropriate arrangements can be made. They only test and accept new students into the program during the first two weeks of each quarter, so don’t put it off.

***Students with disabilities must identify themselves to me within the first two weeks of class.***

The **Math Success Center** (within A201) has free tutoring for all registered students. Please Log In and Out so that the facility gets the funds it needs to continue this free service.

**Attendance and Etiquette:** As a college student, you have voluntarily signed up for approximately 16 hours of Math a week this fall. It is therefore important to remind you that missing four classes (the equivalent of two weeks of the regular quarter) will result in being dropped for non-attendance. Our time in class is a time of learning and is to be respected as such; therefore, disruptive behavior will not be tolerated. A two-class expulsion will be applied for any disruptive behavior.

***As a Courtesy to everyone in class, please turn off your cell phones. Thank you.***

#### **How to succeed in a Math class:**

1. Come to **every** class meeting.
2. Arrive early, be prepared, and **take notes**.
3. **Ask questions**, especially if you don’t understand a concept.
4. Do **more than just** the homework problems.
5. Take advantage of the free **tutoring service in the MSC**.
6. Study in groups and do your homework with a classmate.
7. Start preparing for exams at least one **week** in advance.
8. Do some math **every** day.

**Dropping:** In this class, it is your responsibility to drop the class in order to avoid an unwanted grade. For this, you must go to Admissions & Records.

**Drop Dates are listed on the back of the printed schedule.**

### **Student Outcomes**

The successful student will:

1. Exhibit a proficiency in the topics covered in the course;
2. Engage in logical and critical thinking;
3. Read technical and graphical information; and
4. Demonstrate the solution to problems by translating written language into mathematical statements, interpreting information, sketching relevant diagrams, analyzing given information, formulating appropriate math statements, and checking and verifying results.

**Grading:** Your class letter grade will be based on the usual grading scale:

**A:** 90% & above, **B:** 80-89%, **C:** 70-79%, **D:** 60-69%

**F:** 59% and under

**The following items will make up the course grade:**

Online Homework Assignments	150 points
Weekly Quizzes	150 points
Exams	450 points
Cumulative Final Exam (Jun 24):	250 points

***Total Class points:***

***1000 points***

### **Methods of Evaluation:**

**Homework** is all done online and is due by the time and date posted on the web-basically the next class because you need it for the quiz. The computer has a right answer only but missed problems can be eliminated by working a 'similar problem'. After the due date, the assignments will be available for score improvement only with a deduction of 15% for all late worked problems.

**Weekly Quizzes** are online and are due by the first class of the following week. ***There are no make-up quizzes or extensions*** of the deadlines though they are all available from the first day of class and you have infinite tries to get a satisfactory score.

**Exams** will take the entire class period and be all we do that day. The exams will cover the sections from the previous weeks between exams. Your score will be out of 150 possible points. Tests may be taken early without penalty as long as you officially notify me by email at least one week in advance of the date you need to take the exam. **Exams may NOT be taken late without a valid excuse, will receive a 10% deduction in score per school-day late, and must be made up by the Thursday of the next week.**

**The Final Exam** is given according to the posted finals schedule in the schedule of classes for this quarter. It will include all of the ideas, and sections covered in this course. (**10am; June 24<sup>th</sup>**: 250 points)

## TENTATIVE~LECTURE~SCHEDULE

<u>Date</u>	<u>Section</u>	<u>Topic</u>
Apr. 6		Introductions, Syllabus
	1.2	Symbols and Sets of Numbers
	1.3	Fractions
Apr. 8	1.4	Intro to Variable Expressions and Equations
	1.5	Adding Real Numbers
Apr. 13	1.6	Subtracting Real Numbers
	1.7	Multiplying and Dividing Real Numbers
Apr. 15	1.8	Properties of Real Numbers
	2.1	Simplifying Algebraic Expressions
Apr. 20	2.2	Addition and Multiplication Properties
	2.3	Solving Linear Equations
Apr. 22	2.4	Intro to Problem Solving
<u>Apr. 27</u>		<u>Exam One</u>
Apr 29	2.5	Formulas and Problem Solving
	2.6	Percent and Mixture Problem Solving
May 4	2.7	Further Problem Solving
May 6	2.8	Solving Linear Inequalities
	3.1	Graphs and the Rectangular Coordinate System
May 11	3.2	Graphing Linear Equations
	3.3	Intercepts
May 13	3.4	Slope and the Rate of Change
	3.5	Equations of Lines
May 18	3.6	Functions
<u>May 20</u>		<u>Exam Two</u>
May 25		<i>Memorial Day Holiday</i>
May 27	5.1	Exponents
	5.2	Polynomial Functions, Add and Subtract
Jun. 1	5.3	Multiplying Polynomials
	5.4	Special Products
Jun. 3	5.5	Negative Exponents and Scientific Notation
	5.6	Dividing Polynomials
Jun. 8	9.1	Compound Inequalities
	9.2	Absolute Value Equations
Jun. 10	9.4	Graphing Linear Inequalities
	12.1	Algebra of Functions
<u>Jun. 15</u>		<u>Exam Three</u>
Jun. 17		Review for Cumulative Final Exam
<u>Jun 24</u>		<u>Cumulative Final Exam</u>