

**BASIC ALGEBRA (Part II)**

**Math 152B-03**

**Fall 2014 4 units**

<b><u>INSTRUCTOR:</u></b>	Cindy Littell
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<b><u>MEETING TIMES:</u></b>	<b>Monday and Wednesday 1:30p-3:20p</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>	littell57072

**Course Description:** This course is a continuation of Math 152A. I will present factoring, rational expressions, first degree equations and inequalities with absolute value, solving systems of linear equations and inequalities, radicals, rational exponents and their equations, and solving quadratic equations. 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 152A 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	200 points
Daily Quizzes	100 points
Exams	450 points
Cumulative Final Exam (Dec 9):	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 until midnight before the final.

**Daily Quizzes** are held during the first five minutes of class from 1:30pm to 1:35pm. There is no making up of any quiz. Quizzes will consist of two questions. One question will come from the homework due at noon that day. The other will come from the section you are to have read prior to lecture and be a vocabulary or key idea from the lavender boxes and highlighted words.

**Exams** will cover all materials covered in the sections lectured on prior to the exams and be worth 150 points each. Exams may be taken early without penalty as long as you officially notify me at least one week in advance of the date you need to take the exam in writing or by email. Exams may not be taken late without a valid excuse sent to me via email prior to the exam time, 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. (**December 9<sup>th</sup> (11a-12:50p)**: 250 points)

### TENTATIVE SCHEDULE

<u>Date</u>	<u>Section</u>	<u>Topic</u>
Sept. 22		<b>Introductions, Syllabus</b>
	6.1	<b>GCF and Grouping</b>
	6.2	<b>Factoring when <math>a = 1</math></b>
Sept. 24	6.3	<b>Special Products</b>
	6.4	<b>Factoring <math>Ax^2 + Bx + C, a \neq 1</math></b>
Sept. 29	6.5	<b>Factoring Binomials</b>
	6.6	<b>Factoring Quadratics</b>
Oct. 1	6.7	<b>Solving Quadratic Equations and Problem</b>
	7.1	<b>Rational Functions and Simplifying</b>
Oct. 6	7.2	<b>Multiply and Divide Rational Expressions</b>
	7.3	<b>Addition &amp; Subtraction of Rational Expressions</b>
Oct. 8	7.4	<b>...with unlike denominators</b>
		<b>Review for Exam #1</b>
Oct. 13		<b>Exam #1</b>
Oct. 15	7.5	<b>Solving Equations with Rational Expressions</b>

	<b>7.6</b>	<b>Applications of Ratios &amp; Proportions</b>
<b>Oct. 20</b>	<b>7.7</b>	<b>Complex Fractions</b>
	<b>4.1</b>	<b>Systems by Graphing</b>
<b>Oct.22</b>	<b>4.2</b>	<b>Systems by Substitution</b>
	<b>4.3</b>	<b>Systems by Addition</b>
<b>Oct. 27</b>	<b>8.4</b>	<b>Variation</b>
	<b>9.2</b>	<b>Absolute Value Equations</b>
<b>Oct. 29</b>	<b>9.3</b>	<b>Absolute Value Inequalities</b>
	<b>10.1</b>	<b>Radicals</b>
<b>Nov. 3</b>	<b>10.2</b>	<b>Rational Exponents</b>
		<b>Review for Exam #2</b>
<b>Nov. 5</b>		<b>Exam #2</b>
<b>Nov. 10</b>		<b>Veteran’s Day Holiday</b>
<b>Nov. 12</b>	<b>10.3</b>	<b>Simplifying Radicals</b>
	<b>10.4</b>	<b>+, -, * Radicals</b>
<b>Nov. 17</b>	<b>10.5</b>	<b>Rationalizing</b>
<b>Nov.19</b>	<b>10.6</b>	<b>Radical Equations</b>
	<b>10.7</b>	<b>Complex Numbers</b>
<b>Nov. 24</b>	<b>11.1</b>	<b>Completing the Square</b>
<b>Nov. 26</b>	<b>11.2</b>	<b>Quadratic Formula</b>
		<b>Review for Exam #3</b>
<b>Dec. 1</b>		<b>Exam #3</b>
<b>Dec. 3</b>		<b>Review for Final</b>
<b>Dec. 8</b>		<b>FINAL EXAM--Comprehensive</b>