

**Lake Tahoe Community College**  
**Math 152B – Basic Algebra (Part II)**  
**Fall 2012 – Section 4**

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**Instructor:** Katie Larkin  
**Email:** piontheside@gmail.com  
**Time:** T/Th 10:00 –11:50am  
**Room:** A211

**COURSE CONTENT**

This course will study the basic concepts of algebra. Topics include the real numbers their properties, solving linear equations and inequalities, the four basic operations with polynomials, graphing linear functions and inequalities in two variables, properties of exponents and introduction to functions.

**MATERIALS**

**Required:** MyMathLab Access Code. This code can either be purchased online or in the bookstore. The access code comes with complete online access to the textbook as well as other study guides.

**Optional:** Textbook – Beginning and Intermediate Algebra, 5<sup>th</sup> ed., by Martin-Gay.

**STUDENT LEARNING OUTCOMES (SLOs)**

1. Factor a polynomial.
2. Apply the four basic operations to rational and radical expressions.
3. Solve equations with rational and radical expressions.
4. Solve a 2 x 2 system of linear equations.
5. Solve quadratic equations.
6. Apply course topics to real world situations.

**COURSE WORK**

- **Homework (25%):** All homework will be assigned and completed in MyMathLab. You may attempt each question as many times as necessary. No late assignments will be accepted for course credit. The lowest homework score will be dropped at the end of the quarter.
- **Quizzes/In Class Assignments (15%):** Quizzes will be completed in class. Quizzes will not always be announced and no make-ups will be given unless arrangements have been made with me PRIOR to the day the quiz is given. No late assignments will be accepted for course credit. The lowest quiz score will be dropped at the end of the quarter. NO CALCULATORS MAY BE USED.
- **Midterms (45%):** Three midterm exams, each worth 15% of your final grade, will be given in class. If a student has a conflict, they must notify me BEFORE the day of the exam so that an alternative date can be made. ABSOLUTELY NO MAKE-UPS WILL BE GIVEN without a valid excuse submitted to me PRIOR to exam day. NO CALCULATORS MAY BE USED.
- **Cumulative Final Exam (15%):** The MANDATORY final exam will be given on Tuesday, Dec 4<sup>th</sup> from 11:00a - 12:50p. No make-ups will be given. NO CALCULATORS MAY BE USED.

All exams and assignments will be graded on the following straight scale:

A: 90 - 100%, B: 80 – 89%, C: 70 - 79%, D: 60 - 69%, F: Below 60%

*Note: If you take the course P/NP, keep in mind that a C or above is passing (P).*

**MyMathLab**

It is **required** to have a software license to use the software MyMathLab in this class. Students can purchase the license alone either from the bookstore or online at [www.pearsonmylab.com](http://www.pearsonmylab.com) or [www.pearsonmastering.com](http://www.pearsonmastering.com). The license gives you access to the textbook online. If you purchase a used textbook, you will also need to purchase

the software license. When you first attempt to log on you will need to put in the following course ID: **larkin07401**.

### **COMPUTERS**

Computers are available for your use in the following locations on campus:

- Writing Across the Curriculum Center (Rm. 201): Mon – Th 9 – 6, Fri 11 – 2, Sat 11 – 3.
- Math Success Center (MSC) (Rm. 201): Mon – Th 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.

### **CLASSROOM RULES**

Cell phones and any other “noise-makers” (ipods, mp3 players, etc.) must be turned OFF (not on vibrate, OFF) before entering the classroom and must remain stowed for the entire lecture. Disruptive activity during class will not be tolerated. While I am lecturing or other classmates are asking questions, you should not be talking. If you are consistently disruptive during class, you will be suspended from the class for up to 2 days.

### **HOW TO SUCCEED IN THIS COURSE**

- **Keep up with the work!** Math is a difficult subject; it is **imperative** that you keep up with the work in this class! Pay attention to the schedule and don’t miss assignments.
- **Come to class prepared!** Before each class you should read the appropriate material (see schedule). You should also be sure to review previous lectures and bring any homework questions to class.
- **Make use of the Math Success Center!** I do not have office hours, therefore it is imperative that you get the most out of my lectures and go to the Math Success Center if you're having any trouble at all and need some assistance. The Math Success Center, staffed with knowledgeable tutors, is located in room 201 and is open from M-TH from 9-6, FRI 10-2, and SAT 11-1. There are also computers available for use there.
- **Form study groups!** They can be a great source of help! You can work together on homework assignments, but you need to submit the answer you believe is correct.

### **IMPORTANT DATES**

- **Sep 28:** Last day to drop with a full refund
- **Oct 12:** Last day to drop with no record or declare P/NP
- **Nov 2:** Last day to drop with a ‘W’
- **Dec 4:** Final Exam 11:00a - 12:50p

### **STUDENTS WITH DISABILITIES**

If you have a certified 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.

### **ACADEMIC INTEGRITY**

**Cheating will be defined as but not limited to:** (1) using any method to copy another’s work on an exam or final (2) directly copying another student’s homework assignment (3) using any method other than your own honest efforts to complete exams or the final.

**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 or the final.

**Disciplinary actions for cheating in this class:** Cheating will result in a grade of zero on the item on which the cheating occurred. The worst thing about cheating, however, is compromising your character for such a small reward.

## TENTATIVE SCHEDULE

<b>Math 152B – Fall 2012 – Larkin</b>		
<b>Week</b>	<b>Topics Covered</b>	<b>Section in Text</b>
Week 1	The Greatest Common Factor and Factoring by Grouping; Factoring Trinomials of the Form $x^2 + bx + c$	6.1 - 6.2
Week 2	Factoring Trinomials of the Form $ax^2 + bx + c$ and Perfect Square Trinomials; Factoring Trinomials of the Form $ax^2 + bx + c$ by Grouping; Factoring Binomials; Solving Quadratic Equations by Factoring; Quadratic Equations and Problem Solving	6.3 - 6.7
Week 3	Rational Functions and Simplifying Rational Expressions; Multiplying and Dividing Rational Expressions; Adding and Subtracting Rational Expressions with Common Denominators and Least Common Denominators	7.1 - 7.3
Week 4	Adding and Subtracting Rational Expressions with Common Denominators and Least Common Denominators; Adding and Subtracting Rational Expressions	7.3 - 7.4
Week 5	<b>Exam 1 (6.1 - 6.7, 7.1 - 7.4) - Tuesday, 10/16/12</b> Solving Equations Containing Rational Expressions; Proportion and Problem Solving with Rational Expressions; Simplifying Complex Fractions	7.5 - 7.7
Week 6	Solving Systems of Linear Equations by Graphing; Solving Systems of Linear Equations by Substitution; Solving Systems of Linear Equations by Addition	4.1 - 4.3
Week 7	Compound Inequalities; Absolute Value Equations; Absolute Value Inequalities	9.1 - 9.3
Week 8	<b>Exam 2 (7.5 - 7.7, 4.1 - 4.3, 9.1 - 9.3) - Tuesday, 11/06/12</b> Radicals and Radical Expressions; Rational Exponents; Simplifying Radical Expressions	10.1 - 10.3
Week 9	Adding, Subtracting, and Multiplying Radical Expressions; Rationalizing Denominators and Numerators of Radical Expressions; Radical Equations and Problem Solving	10.4 - 10.6
Week 10	Complex Numbers; Solving Quadratic Equations by Completing the Square	10.7 - 11.1
Week 11	<b>Exam 3 (10.1 - 10.7, 11.1) - Tuesday, 11/27/12</b> Solving Quadratic Equations by the Quadratic Formula; Solving Equations by Using Quadratic Methods	11.2 - 11.3
Week 12	<b>Cumulative Final Exam - Tuesday, 12/04/11 - 11:00a-12:50p</b>	

*Note: Schedule may change slightly over the course of the semester.*