

**Lake Tahoe Community College**  
**MAT 152B – Basic Algebra (Part 2)**  
**M, W            6:10 – 8:00 pm            HSST2**  
**Winter 2006**

**Instructor:** Janine Bouyssounouse

**Prerequisite:** Successful completion of Math 152A with a grade of “C” or better or the appropriate skill demonstrated through the math assessment process.

**Course Description:** This course is a continuation of Mat 152A. Topics covered will include factoring, solving equations with rational and radical expressions, systems of linear equations, and solving quadratic equations.

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**Course Text:** Elementary and Intermediate Algebra 2nd Edition, by Mark Dugopulski

**Student Outcomes**

- 1) Exhibiting a proficiency in the topics covered in the course.
- 2) Engaging in logical and critical thinking.
- 3) Reading technical information.
- 4) Demonstrating 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 Scale:**

<b>A</b>	90-100%	<b>Tests:</b>	<b>40%</b>
<b>B</b>	80-89%	<b>Quizzes:</b>	<b>25%</b>
<b>C</b>	70-79%	<b>Homework:</b>	<b>15%</b>
<b>D</b>	60-69%	<b>Final:</b>	<b>20%</b>
<b>F</b>	59% and below		

**Grades will be posted online at [www.mygradebook.com](http://www.mygradebook.com).** Login IDs and passwords will be distributed the first week of class.

**Tests:** There will be at least 3 tests, usually occurring on Wednesdays.

**Quizzes:** There will be at least 3 quizzes usually occurring on Wednesdays. There will be no make-ups for quizzes. *The lowest quiz grade will be dropped.*

**Make-Up Policy:** There are no make-ups for quizzes; however one quiz will be dropped. Make-ups for tests may have a 10% penalty if taken after the actual test date. Students must contact the instructor in advance to arrange to take the make-up test.

**Homework:** Homework will be collected on the day of the quiz or test. **The last day to turn in homework is Wednesday, March 15.** No homework will be accepted on the day of the final. Completing homework before quizzes and tests will provide practice and may make tests and quizzes seem easier than if the homework was not completed before the quizzes or tests.

**Final:** There will be a comprehensive final exam given on Monday, March 20 at 6:10 pm.

**Attendance:** Regular attendance in class is an obligation assumed by every student at the time of his/her registration. Students will still be responsible for the work missed because of their absence. Homework questions will be answered in class. This can be very helpful in understanding the material, as well as preparing for quizzes and tests. Please familiarize yourself with the sections to be covered in class before attending class.

**Accommodations for Students with Disabilities:** Any students needing accommodations should inform the instructor. Students with disabilities who may need accommodations for this class are encouraged to notify the instructor and contact the Disability Resource Center (DRC) early in the quarter so that reasonable accommodations may be implemented as soon as possible. Students may contact the DRC by visiting the Center (located in room A205) or by phoning 541-4660, ext. 249 (voice) or 542-1870 (TTY for deaf students). All information will remain confidential.

**How to Succeed in a Math Class:**

1. Come to every class meeting.
2. Arrive early, get yourself settled and be ready when class starts. Sit where you won't be distracted.
3. Read each section before it is discussed in class.
4. Do all of the homework.
5. Do some math every day.
6. Start preparing for tests at least a week in advance.
7. Take advantage of tutors and office hours, extra help can make a big difference.
8. Do some review every time you study math.

**Tentative Schedule:**

<b>Date</b>	<b>Sections/Quizzes/Tests</b>
Wednesday 1/4	2.4, 3.5, 5.1
Monday 1/9	5.2, 5.3
Wednesday 1/11	5.4, Quiz #1 (2.4, 3.5, 5.1-5.3), Homework Due (2.4, 3.5, 5.1-5.3)
Monday 1/16	Holiday – No Class
Wednesday 1/18	5.5, 5.6
Monday 1/23	6.1, 6.2
Wednesday 1/25	6.3, Test #1 (2.4, 3.5, 5.1-5.6, 6.1-6.2), Homework Due (5.4-6.2)
Monday 1/30	6.4, 6.5
Wednesday 2/1	6.6, Quiz #2 (6.3-6.5), Homework Due (6.3-6.5)

Date	Sections/Quizzes/Tests
Monday 2/6	6.7, 6.8
Wednesday 2/8	7.1, Test #2 (6.3-6.8), Homework Due (6.6-6.8)
Monday 2/13	7.2, 8.2
Wednesday 2/15	8.3, Quiz #3 (7.1, 7.2, 8.2), Homework Due (7.1, 7.2, 8.2)
Monday 2/20	Holiday – No Class
Wednesday 2/22	9.1, 9.2
Monday 2/27	9.3, 9.4
Wednesday 3/1	9.5, Test #3 (7.1-9.4), Homework Due (8.3-9.4) ( <b>Last Drop Date 3/10</b> )
Monday 3/6	9.6, 10.1
Wednesday 3/8	10.2, Quiz #4 (9.5-10.1), Homework Due (9.5-10.1)
Monday 3/13	Review Tests, Quizzes and Study Guide
Wednesday 3/15	Review Study Guide, <b>Last Homework Due Date</b> (10.2)
Monday 3/20	Final Exam (2.4-10.2, except sections not covered on syllabus)

### Tentative Assignments:

2.4	Formulas	#6, 7-69 every other odd
3.5	Variation	#1, 3, 4, 5-43 odd
5.1	Factoring Out Common Factors	#2, 7-89 every other odd
5.2	Factoring the Special Products Factoring by Grouping	#2, 4, 6, 7-91 every other odd
5.3	Factoring $ax^2 + bx + c$ with $a = 1$	#2, 6, 7-105 every other odd
5.4	Factoring $ax^2 + bx + c$ with $a \neq 1$	#5-101 every other odd
5.5	Factoring a Difference or Sum of Two Cubes	#7-107 every other odd
5.6	Solving Quadratic Equations by Factoring	#1, 3, 5, 6, 7-83 every other odd
6.1	Reducing Rational Expressions	#1, 7-95 every other odd
6.2	Multiplication & Division	#5-77 every other odd
6.3	Finding the Least Common Denominator	#5-71 every other odd
6.4	Addition & Subtraction	#5-81 every other odd
6.5	Complex Fractions	#3-53 every other odd
6.6	Solving Equations with Rational Expressions	#1-4 all, 5-63 every other odd
6.7	Applications of Ratios and Proportions	#5, 6, 7-55 every other odd
6.8	Applications of Rational Expressions	#1-61 every other odd
7.1	Solving Systems of Equations by Graphing & Substitution	#7-79 every other odd
7.2	The Addition Method	#5-39 odd, 45-57 odd
8.2	Absolute Value Equations and Inequalities	#9, 13, 15, 19, 21, 27, 29, 31, 37-43 odd, 53-65 odd, 67-75 odd

8.3	Compound Inequalities in Two Variables	#7-29 odd
9.1	Radicals	#5, 6, 7-107 every other odd
9.2	Rational Exponents	#7-127 every other odd
9.3	Operations with Radicals	#5-105 every other odd
9.4	Quotients, Powers, and Rationalizing Denominators	#1-109 every other odd
9.5	Solving Equations with Radicals and Exponents	#15-91 every other odd, 93, 95, 97
9.6	Complex Numbers	#7-101 every other odd
10.1	Factoring and Completing the Square	#5-95 every other odd
10.2	The Quadratic Formula	#7, 11, 13, 17, 19, 23, 25, 29, 37, 41, 47, 57, 61, 75