

**Lake Tahoe Community College**  
**MAT 152A – Basic Algebra (Part 1)**  
**M, W            6:00 – 7:50 pm            HSST2**  
**Fall 2005**

**Instructor:** Janine Bouyssounouse

**Prerequisite:** Successful completion of Math 187B with a grade of “C” or better or the appropriate skill demonstrated through the math assessment process.

**Course Description:** This course is designed as an introduction to algebra. Topics covered include the four basic operations with positive and negative numbers and with polynomials, solving and graphing linear equations, and introduction to functions and sets, and properties of integral exponents.

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**Course Text:** Elementary and Intermediate Algebra, 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.

**Exams:** There will be at least 4 tests, usually occurring on Wednesdays.

**Quizzes:** There will be at least 4 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, November 30.** 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, December 5 at 6pm.

**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>
Monday 9/19	Syllabus, 1.1, 1.2, 1.3
Wednesday 9/21	1.4, 1.5, Quiz #1 (1.1-1.3), Homework Due (1.1-1.3)
Monday 9/26	1.6, 1.7
Wednesday 9/28	1.8, Test #1 (1.1-1.7), Homework Due (1.4-1.7)
Monday 10/3	2.1, 2.2
Wednesday 10/5	2.3, Quiz #2 (1.8-2.2), Homework Due (1.8-2.2)
Monday 10/10	2.5, 2.6
Wednesday 10/12	2.7, Test #2 (1.8-2.6), Homework Due (2.3-2.6)
Monday 10/17	2.8, 2.9
Wednesday 10/19	8.1, Quiz #3 (2.7-2.9), Homework Due (2.7-2.9)

Date	Sections/Quizzes/Tests
Monday 10/24	8.2, 3.1
Wednesday 10/26	3.2, Test #3 (2.7-2.9, 8.1-8.2, 3.1), Homework Due (8.1-8.2, 3.1)
Monday 10/31	3.3, 3.4
Wednesday 11/2	3.6, Quiz #4 (3.2-3.4), Homework Due (3.2-3.4)
Monday 11/7	4.1, 4.2
Wednesday 11/9	4.3, Test #4 (3.2-3.4, 3.6, 4.1-4.2), Homework Due (3.6, 4.1-4.2)
Monday 11/14	4.4, 4.5
Wednesday 11/16	4.6, Quiz #5 (4.3-4.5), Homework Due (4.3-4.5)
Monday 11/21	4.7, 11.1
Wednesday 11/23	11.6, Test #5 (4.3-4.7, 11.1), Homework Due (4.6-4.7, 11.1)
Monday 11/28	Review Tests and Quizzes
Wednesday 11/30	Review Study Guide, <b>Last Homework Due Date</b> (11.6)
Monday 12/5	Final Exam (1.1-11.6, except sections not covered on syllabus)

### Tentative Assignments:

1.1	The Real Numbers	#1-6 all, 7-15 odd, 20-110 every fifth
1.2	Fractions	#1-6 all, 10-105 every fifth
1.3	Add/Subt of Real Numbers	#2-6 all, 7-101 every other odd
1.4	Mult/Div of Real Numbers	#2-6 all, 10-100 every fifth
1.5	Exponential Expressions/Order of Operations	#1-6 all, 10-120 every fifth
1.6	Algebraic Expressions	#1-6 all, 10-100 every fifth
1.7	Properties of Real Numbers	7-103 every other odd
1.8	Simplify Expressions	#1-6 all, 7-111 every other odd
2.1	Add/Mult Properties of Equality	#2, 4, 5, 6, 7-95 every other odd
2.2	Solving General Linear Equations	#1-4 all, 5-89 every other odd, 95, 97
2.3	More Equations	#1-6 all, 7-83 every other odd, 91
2.5	Translating Verbal Expressions into Algebraic Expressions	#1-19 all, 21, 27, 29, 31-34 all, 37-40 all, 43, 47, 51, 52, 53, 57, 58, 69, 71, 73, 76, 78, 89, 93-125 every other odd
2.6	Number, Geometric, and Uniform Motion Applications	#1-6 all, 7-21 odd, 22, 33, 35, 39, 41, 47, 51
2.7	Discount, Investment, and Mixture Applications	#5-27 odd, 35, 41
2.8	Inequalities	#1-9 odd, 17-49 every other odd, 55, 63, 71-79 odd
2.9	Solving Inequalities and Applications	#4-6 all, 7-51 every other odd
8.1	Compound Inequalities in One Variable	#1-5 all, 7-79 every other odd, 81
8.2	Absolute Value Equations and Inequalities	#7-35 odd
3.1	Graphing Lines in the Coordinate	#1-6 all, 7-87 odd

	Plane	
3.2	Slope	#1-6 all, 7-59 odd
3.3	Equations of Lines in Slope-Intercept Form	#1-5 all, 7-87 every other odd
3.4	The Point-Slope Form	#1-6 all, 7-75 every other odd
3.6	Graphing Linear Inequalities in Two Variables	#1-6 all, 7-51 odd
4.1	Add/Subtraction of Polynomials	#1–11 odd, 13–29 every other odd, 37–61 every other odd, 81–87 odd
4.2	Multiplication of Polynomials	#1–9 odd, 13–45 every other odd, 65–85 every other odd, 93
4.3	Multiplication of Binomials	#5-93 every other odd, 95, 96
4.4	Special Products	#7-73 every other odd, 75
4.5	Division of Polynomials	#7-91 every other odd, 93
4.6	Nonnegative Integral Exponents	#7-87 every other odd, 89
4.7	Negative Exponents/Scientific Notation	#7-81 every other odd
11.1	Functions and Relations	#1–15 odd, 25–37 odd, 69–77 all, 87–101 every other odd
11.6	Combining Functions	#1, 2, 5-22 all