

SYLLABUS
MATH 095-Basic Algebra

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- NO CREDIT- a grade of C (75%) is required to pass this course;
 - Course Description: the following chapters will be covered: 2.1 – 2.7; 3.1 – 3.8; 4.1 – 4.5; 5.1 – 5.7, 5.9; 6.1 – 6.4; Chapter 1 will be reviewed briefly.
 - Required Text: Elementary and Intermediate Algebra: Graphs and Models 4th by Bittinger, Ellenbogen & Johnson
 - A graphing calculator is useful, but not required.
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Procedure: Lecture, homework and class participation.

NO MAKE-UPS: Tests that are missed for any reason **CANNOT** be made-up. Any missed exams will receive a grade of **ZERO**.

Attendance: Students who are registered for this course are expected to attend class regularly. This course is designed in such a way that a student should get more from the in class activities than from the textbook alone.

Course Evaluation: All exams will be equal in value to each other. A student's four highest quiz grades will be averaged into a test grade. All test grades will be averaged to obtain the final grade for the course.

GRADE	EQUIVALENT	GRADE	EQUIVALENT
A	95 – 100	C+	77 – 79
A-	90 – 94	C	75 – 76
B+	87 – 89	C-	70 – 74
B	85 – 86	D+	67 – 69
B-	80 – 84	D	65 – 66
		D-	60 – 64
		F	BELOW 60

CLASS CANCELLATION POLICY:

If the **MANSFIELD SCHOOLS** are closed, class **will be** cancelled. If there is a 90 minute delay for the Mansfield Schools, we **WILL** have class.

MAT095 Course Outcomes

1. Evaluate algebraic expressions
2. Determining if a given number is a solution to an equation or an inequality
3. Determining if an ordered pair is a solution to a linear equation in 2 variables
4. Add, subtract, multiply, and divide real numbers and raise a real number to an integer power
5. Add, subtract, multiply, and divide Polynomials
6. Simplify, add, subtract, multiply, and divide Radicals
7. Rules for Exponents
8. Greatest Common Factor (factoring)
9. Factor by Grouping
10. Factor trinomials of the form $x^2 + bx + c$
11. Factor trinomials of the form $ax^2 + bx + c$
12. Factor Perfect Square Trinomials
13. Factor the Difference of Two Squares
14. Factor Completely
15. Converting between Scientific Notation and standard notation
16. Order of Operations (manipulation)
17. Properties of Real Numbers (manipulation)
18. Simplifying Algebraic Expressions (manipulation)
19. Graphing in a Rectangular Coordinate System
20. Graphing Linear Equations by plotting points, using intercepts, and using the Slope-Intercept form
21. Graphing the solution to a Linear Inequality in one variable.
22. Graphing a System of Linear Equations in two variables
23. Rates of change (slopes)
24. Identifying Linear Equations (Linearity)
25. Solving Linear Inequalities in one variable
26. Finding the Equation of a Line (manipulation)
27. Solving Linear Equations in one variable
28. Solving formulas for a specified variable
29. Solving a System of Linear Equations in two variables (two methods)
30. Solving equations with degree 2 or greater by factoring
31. Two forms for the equation of a line (transforming back and forth)
32. Finding an unknown number word problem
33. Solving consecutive numbers (including odd and even) word problems
34. Solving dimension problems using geometric formulas
35. Solving Percent and Mixture problems
36. Solving table problems such as rate, time, and distance
37. Solving linear inequality problems
38. Solving linear equation in two variables problems
39. Solving System of 2 linear equations in 2 variables word problems
40. Solving factorable Quadratic Equation word problems

If you have a disability that may affect your progress in this course, please meet with a Disability Service Provider (DSP) as soon as possible. Please note that accommodations cannot be provided until you provide written authorization from a DSP.

TRCC Disabilities Service Providers Counseling & Advising Office Room A-119	
<p>Matt Liscum (860) 383-5240</p>	<ul style="list-style-type: none"> • Physical Disabilities • Sensory Disabilities • Medical Disabilities • Mental Health Disabilities
<p>Chris Scarborough (860) 892-5751</p>	<ul style="list-style-type: none"> • Learning Disabilities • ADD/ADHD • Autism Spectrum

Math 095
Spring, 2013

Jan. 25	Chapter 1	March 11	Chapter 3
		13	
		15	
Jan 28	Chapter 2	March 18	SPRING BREAK
30		20	
Feb 1		22	
Feb 4	Chapter 2	March 25	Review
6		27	EXAM Chapter 3
8		29	NO CLASS
Feb 11	Chapter 2	April 1	Chapter 4
13		3	
15		5	
Feb 18	NO CLASS	April 8	Chapter 4
20	Review	10	
22	EXAM Chapters 1 & 2	12	
Feb 25	Chapter 3	April 15	Chapter 5
27		17	
March 1		19	
March 4	Chapter 3	April 22,	Chapter 5
6		24	
8		26	
		April 29	Chapter 6
		May 1	
		May 3	EXAM Chapters 4 & 5
		May 6, 8, 10	Chapter 6
		May 13	REVIEW FOR FINAL
		May 15 and 17	FINAL

