

THREE RIVERS COMMUNITY COLLEGE
Elementary Algebra Foundations Math 095
Spring 2015

Course Number: 10332 Section T5
TR 2:30 – 3:45 pm, Room D215

Instructor: Henry Kopij
Email: hkopij@trcc.commnet.edu
Office Hours: 1:00 – 2:00 pm D205
or by appointment

Text: Elementary & Intermediate Algebra 5th Ed., Barrato

Course Description:

This developmental course prepares students for college level classes. The course develops understanding of number systems, different representations of numbers, operations on numbers, including numbers expressed in scientific notation. The course introduces functions, their graphs, modeling relationships between quantities using functions. Topics also include solving equations and expressions with integer exponents, radicals, solving, analyzing and modeling linear equations, systems of linear equations, Pythagorean Theorem and geometrical formulas used to solve real world problems. **This course does not count towards the minimum requirement for graduation.**

Course Outcomes:

After the successful completion of this course the student must be able to:

1. Use the symbols and language of algebra to identify algebraic expressions
2. Use algebra to model an application
3. Evaluate algebraic expressions
4. Use a calculator to evaluate an expression and to solve applications
5. Simplify algebraic expressions by combining like terms and adding and subtracting expressions
6. Verify solutions to an equation
7. Use the addition and multiplication properties to solve equations and solve applications
8. Combine properties to solve equations and solve applications
9. Solve inequalities and graph their solutions
10. Solve a formula for a given variable and solve applications involving geometric figures

11. Use set builder notation, interval notation and find unions and intersections of sets
12. Solve two variable equations
13. Plot ordered pairs on Cartesian axis
14. Identify domain and range of a function
15. Determine whether a relation is a function including vertical line test
16. Evaluate functions and use function notation to write an equation
17. Read function values from a table and from a graph
18. Graph a linear function by plotting points and by using intercept method
19. Find the slope and y-intercept of a line and write the equation of a line
20. Determine whether lines are parallel or perpendicular
21. Solve a system of equations graphically and classify systems of equations
22. Rewrite a linear equation in one variable as $f(x) = g(x)$
23. Use the addition and substitution methods to solve a system of equations
24. Use exponential notation and simplify exponential expressions
25. Simplify expressions with zero and negative exponents and solve applications
26. Classify polynomials and find their degree
27. Add, subtract, multiply, and divide polynomials
28. Evaluate expressions containing radicals
29. Estimate radical expressions and simplify expressions containing radicals
30. Apply the Pythagorean Theorem and the distance formula
31. Write an equation of a circle and sketch its graph

Required Materials:

Three-ring notebook and tabbed dividers to create sections for class notes and homework. The homework section should be organized so that the instructor can check it periodically in order to determine a homework grade.

Calculators – A graphing calculator is required for this course. TI-83 or TI-84 calculators are required in the next course. You will be allowed to use a calculator to do homework assignments and on most tests. Any calculator will also be acceptable. **Cell phones will not be allowed as calculator.**

Course Supplement:

ALEKS: This course is supplemented by a new math evaluation and tutorial program called ALEKS. You can access this program by accessing the ALEKS website at www.aleks.com to register. The course title is Spring 2015 095/095I-123 and the course code is UD36A-VH6PN.

Attendance:

Attendance is mandatory. After a second absence your grade will be lowered by one level: A to A-, A- to B+, etc. Excessive tardies may accumulate as one or more absences.

Students who are absent 3 times will have one point added to their final grade, 2 absences will add two points, 1 or fewer will add 3 points to the final grade. A weekly quiz will be given at the beginning of class and no make-ups are allowed.

Grading Criteria for non MML students:

4 announced tests each worth 100 points (50% of grade)

Weekly quizzes 10% of grade (Best 10 scores)

Homework 20% of grade

Final Exam worth 200 points (20% grade)

Homework: Homework will be assigned during each class and will be gone over on the following class. Generally homework will not be graded unless announced in advance. Students may elect to do homework using ALEKS and have their homework assignments included as part of their grade. Students may elect one of two options for their homework assignments.

Option 1 : ALEKS pie successfully completed (20% of grade)

Students must successfully complete their ALEKS pie before May 14, 2015 to earn 20% of the course grade. Otherwise they will receive a grade proportional to the amount of the work that they complete on the ALEKS pie.

Or

Option 2: Homework Assignments from the textbook (20% of grade)

Assignments are listed in the syllabus. All work must be kept in a notebook with assignments clearly listed (showing all work) where they can be viewed by the instructor. All assignments must be completed prior to the test date for each scheduled exam).

Exams: Will be administered in class. **No make-up exams will be allowed unless there is an unavoidable situation that can be documented.** A student must contact the instructor on the day of the exam or earlier in order to be allowed to take a make up exam. If a student misses an exam the final exam grade will be used as a replacement for missed exam. Any subsequent missed tests will result in a zero.

Extra Credit – No “extra credit” is given in this course.

Support Services: Free tutoring is available in room C-117 at the Thames Tutoring Center (860-885-2311). Appointments are required in advance.

Cell Phones and Beepers: Cell phones and beepers should be off during class.

Inclement Weather: You can check for delays or cancellations by going to www.trcc.comnet.edu or by calling 860 886-0177.

CLASS PARTICIPATION: I strongly encourage everyone to participate in class and to ask any questions that you may have.

Plagiarism and Academic Honesty:

At TRCC, we expect the highest standards of academic honesty. The Board of Trustees' Proscribed Conduct Policy prohibits cheating on examinations, unauthorized collaboration on assignments, unauthorized access to examinations or course materials, plagiarism.

Disabilities 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	
Matt Liscum (860) 383-5240	<ul style="list-style-type: none">• Physical Disabilities• Sensory Disabilities• Medical Disabilities• Mental Health Disabilities
Chris Scarborough (860) 892-5751	<ul style="list-style-type: none">• Learning Disabilities• ADD/ADHD• Autism Spectrum

GOOD LUCK

Math 095 Beginning Algebra

Text: Elementary & Intermediate Algebra 5th ed. Barrato

Chapter	Section	Assignment
0	0.1	10/1-91
	0.2	19/1-61
	0.3	28/1-71
	0.4	39/1-71
	0.5	48/1-87
1	1.1	63/3-78 mult of 3
	1.2	75/1-75 mult of 3
	1.3	87/5-100 mult of 5
	1.4	102/29-61
	1.5	112/1-39, 59-63
	1.6	126/1-51, 71-77
	1.7	141/3-75 mult of 3
	Exam 1	
2	2.1	160/1-23, 35-41
	2.2	175/3-75 mult of 3
	2.3	186/ 5,7,9,15,17,19,27,29,31
	2.4	196/1-37
	2.5	211/3-11, 17-29, 33-37, 49-63
	2.6	226/1-49
	Exam 2	
3	3.1	256/3-36 mult of 3
	3.2	279/3-57 mult of 3
	3.3	294/5-40 1,5,7, 11-45
	Exam 3	
4	4.1	347/11-31, 33-38 all
	4.2	358/1-9, 17
	4.3	373/1-29, 39, 53, 65
	Exam 4	

5	5.1	414/1-61
	5.2	427/3-75 mult of 3, 83-97, 103
	5.3	436/1-35
	5.4	444/3-51 mult of 3
	5.5	455/5-85 mult of 5
	5.6	465/1-31

Exam 5

7	7.1	560/3-45 mult of 3, 59-67
---	-----	---------------------------

Final Exam

Jan 22	0.1-0.2	0.1
Jan 27	0.3-0.5	0.2-0.4
Jan 29	1.1	0.5-1.1
Feb 3	1.2	1.2-1.3
Feb 10	1.3	1.4-1.6
Feb 12	1.4	1/6-1.7
Feb 17	1.5	2.1
Feb 19	1.6	T1
Feb 24	1.7	2.2-2.3
Feb 26	2.1	2.4
Mar 3	T1	2.5-2.6
Mar 5	2.1	3.1
Mar 10	2.2	T2
Mar 12	2.3	3.2
Mar 24	2.4	3.3
Mar 26	2.5	4.1
Mar 31	2.6	T3
Apr 2	3.1	4.2
Apr 7	T2	4.3
Apr 9	3.2	5.1
Apr 14	3.3	T4
Apr 16	4.1	5.2
Apr 21	T3	5.3
Apr 23	4.2	5.4
Apr 28	4.3	5.5
Apr 30	5.1	5.6
May 5	T4	7.1
May 7	5.2	T5
May 12	5.3	Review
May 14		Final