Elementary Algebra, FALL 2017, CRN 32503 MAT K095I , MON,WED 1:30pm – 2:45pm, FRI 2:00-4:45 Rm D219
Instructor – John Donato
Pre-requisite: **MAT K075 or MAT K075I**

Text: Elementary and Intermediate Algebra – 5th Edition -- Baratto - Bergman
Course description: 6 CREDIT HOURS ELEMENTARY ALGEBRA
This course is Elementary Algebra taught as a lecture course and with Aleks as a lab. The course develops procedures for creating equations that abstractly represents the relations of relevant data in real world problems and how to solve equations. It exposes students to the geometric relation of equations to a physical model (Cartesian plane) and introduces polynomial equations. The lab section exposes students to additional practice and individualized instruction using the Aleks software. It is **expected** that a minimum of 2.5 hours per week are spent in the Aleks program unless you complete 90% of the required topics.

Measurements: Grade will be determined by taking average of homework, tests, quizes and the Aleks grade taken twice. The Final will count as two tests.
Grade equivalents: A 93 – 100, A- 90 – 93, B+ 87 -89, B 83 – 86,
B- 80 – 82, C+ 77 – 79, C 73 – 76, C- 70 – 72, D+ 67 – 69. D 63 – 66,
D- 60 – 62, F below 60, N if the student completed less than 60% of work

Attendance: It is very important that you attend **ALL** classes. Your attendance in the classroom, participation in classroom work /projects and preparation for each class is required and is essential to your success in the course.

Support Services: Tutorial services. Meeting with me for an extra help.

Office Hours: Immediately after class or by arrangement.
E-mail: jdonato@trcc.commnet.edu or jdonatori2@yahoo.com
Phone: (401) 330-0170 cell

Class Cancellation: In case of increment weather, check the college website for class cancellations or call 860-215- 9000 for recorded message on the college phone.

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.

Alert System: MyCommNet Alert is a system that sends text messages and emails to anyone signed up in the event of a campus emergency. Additionally, TRCC sends messages when the college is delayed or closed due to weather. All students are encouraged to sign up for MyCommNet Alert. A tutorial is available on the Educational Technology and Distance Learning Students page of the web site(see the link below).
http://www.trcc.commnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAlert/MIR3.html

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) 215-9265	• Physical Disabilities • Sensory Disabilities • Medical Disabilities • Mental Health Disabilities
Chris Scarborough (860) 215-9289	• Learning Disabilities • ADD/ADHD • Autism Spectrum

Digication Statement: All students are required to maintain an online learning portfolio in Digication that uses the college template. Through this electronic tool students will have the opportunity to monitor their own growth in college-wide learning. The student will keep his/her learning portfolio and may continue to use the Digication account after graduation. A Three Rivers General Education Assessment Team will select and review random works to improve the college experience for all. Student work reviewed for assessment purposes will not include names and all student work will remain private and anonymous for college improvement purposes. Students will have the ability to integrate learning from the classroom, college, and life in general, which will provide additional learning opportunities. If desired, students will have the option to create multiple portfolios

095 Course Topics Elementary and Intermediate Algebra by Baratto, Bergman 5th ed

Section	**Topics**	**HW (odd numbered problems; it's a guide only)**	
Ch.0	**Review of Prealgebra (primarily for 095 I classes)**		
0.1	Review of fractions	p. 10	1 - 91
0.2	Real Numbers	p. 19	1 - 69
0.3	Adding and subtracting real numbers	p. 28	1 - 73
0.4	Multiplying and dividing real numbers	p. 39	1 - 77
0.5	Exponents and Order of Operations	p. 48	1 - 75

Ch. 1			
1.1	Algebraic Expressions	p. 63	1, 5, 7, 19, 21, 25, 27
1.2	Evaluating algebraic expressions	p. 75	1-21
1.3	Simplifying Algebraic Expressions	p. 87	27-67, 81-89
1.4	Solving equations using addition property	p. 102	41-61, 71 -77
1.5	Solving equations using multiplication property	p. 113	13-39, 59-63
1.6	Combining the rules to solve equations	p. 126	11-59, 73,75,85,87
1.7	Linear inequalities	p. 141	25-33,38-55
Ch. 2			
2.1	Formulas and problem solving	p. 161	1-21, 31-35
2.2	Sets and set notation	p. 175	15-27,35-43,
2.3	Two-variable equations	p.186	1,7,15,17
2.4	The Cartesian coordinate system	p. 198	1-21,35,39, 51
2.5	Relations and Functions	p. 212	17-21, 33, 3741-47
2.6	Tables and graphs	p. 226	7-21, 45-49
Ch. 3			
3.1	Graphing linear Functions	p. 256	1,3,7, 11, 21, 23
3.2	The Slope of a line	p.279	7-15, 19-41, 47-51, 55, 59,
3.3	Linear equations	p. 294	1,3,5,11-21, 23-31, 33-43
Ch. 4			
4.1	Systems of Linear equations	p. 347	5 - 23, 25-31, 33-38
4.2	Solving systems in one variable graphically	p. 358	1-9
4.3	Solving systems in 2 Variables	p. 373	1-25, 33,35, 51-55
Ch. 5			
5.1	Positive Integer Exponents	p. 414	1-51
5.2	Integer Exponents and Scientific notation	p. 427	1-35, 83, 89, 91,97, 105, 107
5.3	An introduction to Polynomials	p. 436	1 -15, 37
5.4	Adding and subtracting Polynomials	p. 444	11, 17, 23, 31, 37
5.5	Multiplying Polynomials	p. 455	1-19, 25-37, 49-53, 61-67
5.6	Dividing Polynomials	p. 465	1-19
Ch.7			
7.1	Roots, radicals, Pythagorean Theorem	p. 560	1-9, 59-63

Board of Regents for Higher Education and Connecticut State Colleges and Universities Policy Regarding Sexual Misconduct Reporting, Support Services and Processes Policy:

Public Act No. 14-11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:
"The Board of Regents for Higher Education (BOR) in conjunction with the Connecticut State Colleges and Universities (CSCU) is committed to insuring that each member of every BOR governed college and university community has the opportunity to participate fully in the process of education free from acts of sexual misconduct, intimate partner violence and stalking."

Title IX Statement of Policy:

"Title IX of the Education Amendments Act of 1972 protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students are protected by Title IX, regardless of their sex, sexual orientation, gender identity, part or full-time status, disability, race, or national origin, in all aspects of educational programs and activities."
Please Report Student Incidents to: Edward A. Derr, Student Diversity and Title IX Coordinator
Admissions Welcome Center * Office A116

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. Converting between Scientific Notation and standard notation
9. Order of Operations (manipulation)
10. Properties of Real Numbers (manipulation)
11. Simplifying Algebraic Expressions (manipulation)
12. Graphing in a Rectangular Coordinate System
13. Graphing Linear Equations by plotting points, using intercepts, and using the Slope-Intercept form
14. Graphing the solution to a Linear Inequality in one variable.
15. Graphing a System of Linear Equations in two variables
16. Rates of change (slopes)
17. Identifying Linear Equations (Linearity)
18. Solving Linear Inequalities in one variable
19. Finding the Equation of a Line (manipulation)
20. Solving Linear Equations in one variable
21. Solving formulas for a specified variable
22. Solving a System of Linear Equations in two variables (two methods)
23. Solving equations with degree 2 or greater by factoring
24. Two forms for the equation of a line (transforming back and forth)
25. Finding an unknown number word problem
26. Solving consecutive numbers (including odd and even) word problems
27. Solving dimension problems using geometric formulas
28. Solving Percent and Mixture problems
29. Solving table problems such as rate, time, and distance
30. Solving linear inequality problems
31. Solving linear equation in two variables problems
32. Solving System of 2 linear equations in 2 variables word problems
33. Identifying Polynomial degee
34. Adding and subtracting polynomials
35. Multiplying and dividing polynomials

Mathematical Practices

1) Make sense of problems and persevere in solving them.
2) Reason abstractly and quantitatively.
3) Construct viable arguments and critique the reasoning of others.
4) Model with mathematics.
5) Use appropriate tools strategically.
6) Attend to precision.
7) Look for and make use of structure.
8) Look for and express regularity in repeated reasoning