Elementary Algebra Foundation, 11778, K095
W 6:00pm – 08:45 pm, room E206
Spring 2017
Professor: Paul Enrique Porras

Prerequisite: MAT 075, Prealgebra or Math Placement

Text: Algebra, Elementary and Intermediate, by Barrato, 5th edition, ISBN: 9780073384467
             Publisher: McGraw-Hill

Course Description: This course extends the basic algebra skills acquired in MAT* K075. The topics include signed numbers, solving first-degree equations, exponents, polynomials, and factoring, graphing, systems of linear equations, inequalities, radicals, and scientific notation.

Measurements:

Exams	3	50%
Quizzes	6	30%
Homework	15	15%
Attendance & Participation	All semester	5%

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.

Support Services: Tutorial services. Peers. Meeting during office hours or contacting professor via Email. I will constantly check my email.

Office Hours: Wednesday: 5:00 pm – 6:00 pm, Office: D205   **Email: Pporras@threerivers.edu**

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

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.

MyCommNet Alert: MyCommNet 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.
http://www.trcc.commnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAlert/MIR3.html

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860-215-9000 for recorded message.

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: 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

Attendance/
Class Participation: Regular and punctual class attendance is expected of all students. Numerous studies have
demonstrated that those who attend class do better than those who don't.

Cell Phones: As a courtesy to the instructor and other students, please turn cellphones to vibrate or silent mode.

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Course Objectives:

Upon completion of the course, student should be able to:

- Evaluate and simplify Algebraic expression
- Solve equations using Addition and Multiplication properties
- Combining properties of equality to solve equations
- Solve linear inequalities
- Solve a formula for any variable
- Have a clear understanding of two-variable equation
- Understand the Cartesian coordinate systems
- Create graphs based on tables using the coordinate system
- Graph a linear equation by plotting points
- Be able to identify the slope of a line
- Write a linear equation based on the slope of the line or two given points
- Solve a system by graphing
- Solve the equation graphically
- Solve systems of equations in 2 Variables
- Use exponential notations
- Simplify exponential expression
- Understand integer exponents and scientific notation
- Add, subtract, multiply, and divide polynomials
- Understand roots, radicals, and Pythagorean Theorem

Course Content*:

Chapter	Title	Section	Date
0	Pre-Algebra review	1-5	1/25
Quiz 1			2/1
1	From Arithmetic to Algebra	1-7	2/1-2/8
Quiz 2			2/15
Test 1 (chapter 0&1)			**2/22**
2	Function and Graphs	1-6	2/22-3/1
Quiz 3			3/1
3	Graphing Linear Function	1-3	3/08-3/15
Spring Break			3/22
Test 2 (chapter 2&3)			**3/22**
4	System of Linear Equation	1-3	3/29-4/11
Quiz 4			4/18
5	Exponents and Polynomials	1-6	4/18-5/3
Quiz 5			5/3
7	Radical and Exponents	1	5/03
Quiz 6*	(Take home)		5/10
Final Exam (chapter cumulative)			**5/10**

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Homework (odd numbers).

Chapter	Section	Page	Problems*
0	1	10	1-91
	2	19	1-69
	3	28	1-73
	4	39	1-77
	5	48	1-75
1	1	63	1,5,7,19,21,25,27
	2	75	1-21
	3	87	27-67,81-89
	4	102	41-61,71-77
	5	113	13-39,59-63
	6	126	11-59,73,75,85,87
	7	141	25-33,38-55
2	1	161	1-21,31-35
	2	175	15-27,35-43
	3	186	1,7,15,17
	4	198	1-21,35,39,51
	5	212	17-21,33,37,41-47
	6	226	7-21,45-49
3	1	256	1,3,7,11,21,23
	2	279	7-15,19-41,47-51,55,59
	3	294	1,3,5,11-21,23-31,33-43
4	1	347	5-23,25-31,33-38
	2	358	1-9
	3	373	1-25,33,35,51-55
5	1	414	1-51
	2	427	1-35,83,89,91,97,105,107
	3	436	1-15,37
	4	444	11,17,23,31,37
	5	455	1-19,25-37,49-53,61-67
	6	465	1-19
7	1	560	1-9,59-63

*Subject to change.