

MAT 095I, ELEMENTARY ALGEBRA (embedded), Spring 2015, 13172
MWF 1:00pm – 1:50pm, MW 2-3:15pm room D219
Elizabeth Godwin

TEXT: Elementary and Intermediate Algebra, 5th edition by Baratto and Bergman
ALEKS access: VWWVK-PACDT

COURSE

DESCRIPTION: THIS ELEMENTARY ALGEBRA DEVELOPMENTAL COURSE PREPARES STUDENTS FOR COLLEGE LEVEL COURSES. DESIGNED TO BUILD UNDERSTANDING AND SKILLS IN ALGEBRA, IT ALSO PROVIDES EMBEDDED PRE-ALGEBRA SUPPORT. THE COURSE DEVELOPS UNDERSTANDING OF NUMBER SYSTEM, DIFFERENT REPRESENTATIONS OF NUMBERS, OPERATIONS ON NUMBERS, INCLUDING NUMBERS EXPRESSED IN SCIENTIFIC NOTATION. THE COURSE INTRODUCES FUNCTIONS, THEIR GRAPHS, MODELING RELATIONSHIP 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 ARE USED TO SOLVE REAL WORLD PROBLEMS.

MEASUREMENTS:	3 tests	100 points each	300
	quizzes/assignments		200
	ALEKS	see below	100
	Final exam	100 points	100

Final grade = (total points earned/700) *100

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: Your attendance in the classroom during both class and lab time, participation in classroom work/projects and preparation for each class is required and is essential to success in the course. If you are unable to attend class then I expect you to email me before if possible but afterwards at the very least. This is for your protection. If something happens then you will have written documentation. There will be no makeups for tests, quizzes and written homework assignments. If you are not in class on these days or do not complete them in time then you will get a 0. If an unusual circumstance arises and you provide adequate documentation then I will consider allowing a makeup.

ALEKS: In this course, students will use an online educational program titled ALEKS 360 (Assessment and LEarning in Knowledge Spaces). This program can be used on any computer with Internet access. An access code for ALEKS 360 is required and may be purchased at the bookstore or online at www.aleks.com. In ALEKS students are expected to complete eight (8) Intermediate Objectives. Completion of each Intermediate Objective by its specified due date is worth a total of 100 points (10 points per Intermediate Objective and 30 for overall mastery). Check the calendar in ALEKS for all Intermediate Objective due dates.

Office Hours: M/W/F 10:00 – 11:00 am Tuesday 4:00 – 5:00 pm Room C206 or by appointment
Email egodwin@trcc.commnet.edu , Phone (860)- 215-9452

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Class Cancellation: In case of inclement 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.

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

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

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.

Topics Covered

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Ch.0 Review of Prealgebra

- 0.1 Review of fractions
- 0.2 Real Numbers
- 0.3 Adding and subtracting real numbers
- 0.4 Multiplying and dividing real numbers
- 0.5 Exponents and Order of Operations

Ch. 1

- 1.1 Algebraic Expressions
- 1.2 Evaluating algebraic expressions
- 1.3 Simplifying Algebraic Expressions
- 1.4 Solving equations using addition property
- 1.5 Solving equations using multiplication property
- 1.6 Combining the rules to solve equations
- 1.7 Linear inequalities

Ch. 2

- 2.1 Formulas and problem solving
- 2.2 Sets and set notation
- 2.3 Two-variable equations
- 2.4 The Cartesian coordinate system
- 2.5 Relations and Functions
- 2.6 Tables and graphs

Ch. 3

- 3.1 Graphing linear Functions
- 3.2 The Slope of a line
- 3.3 Linear equations

Ch. 4

- 4.1 Systems of Linear equations
- 4.2 Solving systems in one variable graphically
- 4.3 Solving systems in 2 Variables

Ch. 5

- 5.1 Positive Integer Exponents
- 5.2 Integer Exponents and Scientific notation
- 5.3 An introduction to Polynomials
- 5.4 Adding and subtracting Polynomials
- 5.5 Multiplying Polynomials
- 5.6 Dividing Polynomials

Ch.7

- 7.1 Roots, radicals, Pythagorean Theorem