MAT 137S, INTERMEDIATE ALGEBRA (embedded), Fall, 2015, 32506,
MWF 10:00pm – 10:50am M 11-11:50am room D219
Elizabeth Godwin

PREREQUISITE: MAT* 095 or MAT* 095I, Elementary Algebra

TEXT: Elementary and Intermediate Algebra, 5th edition by Baratto and Bergman
ALEKS Access: **Class Code:** 369C9-VWFPA

COURSE DESCRIPTION: THIS COURSE REPRESENTS THE INTERMEDIATE ALGEBRA INSTRUCTION WITH EMBEDDED DEVELOPMENTAL SUPPORT. THE COURSE CULTIVATES UNDERSTANDING AND DIFFERENT REPRESENTATIONS OF FUNCTIONS. THE COURSE COVERS LINEAR, QUADRATIC, EXPONENTIAL, RATIONAL, RADICAL FUNCTIONS, EQUATIONS AND EXPRESSIONS AND OPERATIONS ON THEM WITH EMPHASIS ON MODELING AND SOLVING REAL WORLD PROBLEMS.

MEASUREMENTS:

3 tests	100 points each	300
10 quizzes/assignments	20 points each	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, participation in classroom work/projects and preparation for each class is required and is essential to success in the course.

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 five (5) Intermediate Objectives. Completion of each Intermediate Objective by its specified due date is worth a total of 100 points (20 points per Intermediate Objective for the first 4, 10 for the last one and 10 for overall mastery). Check the calendar in ALEKS for all Intermediate Objective due dates.

Support Services: Tutorial services, peers, or meeting with me for extra help during office hours.

Office Hours: M 5:00 – 6:00 pm W/F 11:00 am – 12:00 noon and F 9:00 – 10:00 am Room C206 or by appointment

Email egodwin@trcc.commnet.edu , Phone (860)- 215-9452

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.

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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	• Physical Disabilities • Sensory Disabilities • Medical Disabilities • Mental Health Disabilities
Chris Scarborough (860) 892-5751	• 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

Chapter 6 Factoring
6.1 An introduction to Factoring
6.2 Factoring Special Products
6.3 Factoring: Trial and Error
6.4 Factoring: The ac method
6.5 Factoring Strategies
6.6 Factoring and Problem Solving

Chapter 7 Radicals and Exponents
7.1 Roots and Radicals
7.2 Simplifying Radical Expressions
7.3 Operations on Radicals
7.4 Solving Radical Equations
7.5 Rational Exponents
7.6 Complex Numbers

Chapter 8 Quadratic Functions
8.1 Solving Quadratic Equations
8.2 The Quadratic Formula
8.3 An Introduction to Parabolas
8.4 Quadratic Equations and Problem Solving

Chapter 9 Rational Expressions
9.1 Simplifying Rational Expressions
9.2 Multiplying and Dividing Rational Expressions
9.3 Adding and Subtracting Rational Expressions
9.6 Rational Equations and Problem Solving

Chapter 10 Exponential and Logarithmic Functions
10.4 Exponential Functions