

MAT 137, INTERMEDIATE ALGEBRA Spring 2015, 11991
MWF 11:00pm – 11:50am room E221
Elizabeth Godwin

PREREQUISITE: MAT* 095 or MAT* 095I, Elementary Algebra
TEXT: Elementary and Intermediate Algebra, 5th edition by Baratto and Bergman
Also required: TI-83 or TI-84 calculator

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
	Quizzes	unannounced	100
	In class assignments/homework		100
	Final exam	100 points	100

Final grade = (total points earned/600) *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. 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.

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

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

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.

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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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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