

**MAT 137S, INTERMEDIATE ALGEBRA (embedded), Spring, 2016, 12861,  
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:** JPM4L-PR9HN

**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.

<b>MEASUREMENTS:</b>	3 tests	100 points each	300
	4 quizzes	25 points each	100
	Lab assignments		200
	ALEKS	see below	100
	Final exam	100 points	100

Final grade = (total points earned/800) \*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](http://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:** Wednesdays 11:00 – 12:00 and 5:00 – 6:00  
Fridays 9:00 – 10:00 and 11:00 – 12:00 in or by appointment in C206  
**Email** [egodwin@trcc.commnet.edu](mailto: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.

**MAT 137S, INTERMEDIATE ALGEBRA (embedded), Spring, 2016, 12861,  
MWF 10:00pm – 10:50am M 11-11:50am room D219  
Elizabeth Godwin**

**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.

<b>TRCC Disabilities Service Providers</b> Counseling & Advising Office Room A-119	
<b>Matt Liscum</b> (860) 383-5240	<ul style="list-style-type: none"><li>• Physical Disabilities</li><li>• Sensory Disabilities</li><li>• Medical Disabilities</li><li>• Mental Health Disabilities</li></ul>
<b>Chris Scarborough</b> (860) 892-5751	<ul style="list-style-type: none"><li>• Learning Disabilities</li><li>• ADD/ADHD</li><li>• Autism Spectrum</li></ul>

**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](http://www.trcc.commnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAlert/MIR3.html)

**Digication:** All students are required to maintain a learning portfolio in Digication that uses the (Three Rivers) College Template.

**MAT 137S, INTERMEDIATE ALGEBRA (embedded), Spring, 2016, 12861,  
MWF 10:00pm – 10:50am M 11-11:50am room D219  
Elizabeth Godwin**

**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