

**MAT 172, COLLEGE ALGEBRA, Spring 2016, 12863**  
**M/W 3:30pm – 4:45pm, room D109**  
**Elizabeth Godwin**

**PREREQUISITE:** MATH 137, Intermediate Algebra  
**TEXT:** College Algebra, 4th edition by Beecher, Penna, Bittinger  
MyMathLab (Code: godwin22207)  
Also required: TI-83 or TI-84 calculator

**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

**COURSE**

**DESCRIPTION:** THIS COURSE IS A THOROUGH AND RIGOROUS ALGEBRA COURSE, THAT STRENGTHENS THE PROFICIENCY WITH ALGEBRAIC SKILLS AND THE CONCEPTUAL UNDERSTANDING NEEDED TO BE SUCCESSFUL IN THE CALCULUS SEQUENCE. THE TOPICS INCLUDE: SETS, POLYNOMIAL, EXPONENTIAL, LOGARITHMIC AND RATIONAL FUNCTIONS, RATIONAL EXPONENTS, CONIC SECTIONS, RIGHT TRIANGLE TRIGONOMETRY, MATRICES, POLYNOMIAL, EXPONENTIAL, LOGARITHMIC AND RADICAL EQUATIONS, LINEAR AND QUADRATIC INEQUALITIES, ABSOLUTE VALUE EQUATIONS AND INEQUALITIES, LINEAR AND NONLINEAR SYSTEMS.

<b>MEASUREMENTS:</b>	3 tests	100 points each	300
	4 quizzes	see below	100
	HW in MML	see below	100
	Written homework	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. 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.

**Homework and Quizzes:**

Your homework and quizzes will all be completed in MyMathLab. This is a required part of the course. I will be assigning problems that go with problems in the book that are to be completed in MyMathLab. Additionally, I will be assigning quizzes in MyMathLab for you to complete during a specific time period. Also, there is a possibility that some tests will be given in MyMathLab depending on how the weather cooperates with classes.

**MAT 172, COLLEGE ALGEBRA, Spring 2016, 12863**  
**M/W 3:30pm – 4:45pm, room D109**  
**Elizabeth Godwin**

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

**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.

<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 172, COLLEGE ALGEBRA, Spring 2016, 12863**  
**M/W 3:30pm – 4:45pm, room D109**  
**Elizabeth Godwin**

**Topics Covered:**

**Chapter 1, 1.1 - 1.6 (Review)**

Graphing 1.1

Functions and Graphs 1.2

Equations of Lines and Modeling 1.3

Linear Equations, Functions 1.4

Solving Linear Inequalities 1.5

**Chapter 2, 2.1 - 2.5 (Review)**

Functions 2.1

The Algebra of Functions 2.2

The Composition of Functions 2.3

Symmetry and Transformations 2.4

Variation and Applications 2.5

**Chapter 3, 3.1 - 3.5 (Review)**

The Complex Numbers 3.1

Quadratic Equations, Models 3.2

Graphs of Quadratic equations 3.3

Rational and Radical Equations 3.4

Solving Equations and Inequalities with Absolute Values 3.5

**Chapter 4, 4.1 - 4.6**

Polynomials Functions and Models 4.1

Graphing Polynomials Functions 4.2

Polynomial Division, The remainder Theorem 4.3

Zeroes of Polynomials Functions 4.4

Rational Functions 4.5

Polynomial and Rational inequalities 4.6

**Chapter 5, 5.1 - 5.6**

Inverse Functions 5.1

Exponential Functions and Graphs 5.2

Logarithmic Functions and Graphs 5.3

Properties of Logarithmic Functions 5.4

Solving Exponential and Logarithmic equations 5.5

Applications and Models 5.6

**Chapter 6, 6.1 - 6.3 (if time)**

Systems of Equations in 2 Variables 6.1

Systems of Equations in 3 Variables 6.2

Matrices and Systems of Equations 6.3