

MAT 172, COLLEGE ALGEBRA, Spring 2015, 12863
M/W 3:30pm – 4:45pm, room D122
Elizabeth Godwin

PREREQUISITE: MATH 137, Intermediate Algebra
TEXT: College Algebra, 4th edition by Beecher, Penna, Bittinger
MyMathLab: **godwin76222**
Also required: TI-83 or TI-84 calculator

Office Hours: M/W/F 10:00 – 11:00 am and T 4:00-5:00 pm Room 206 or by appointment
Email 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.

MEASUREMENTS:	3 tests	100 points each	300
	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.

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

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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

Homework: This is a guide only. Assignments may vary. The problems in MyMathLab will be similar to but not exactly like the problems listed below.

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Chapter 1, 1.1 - 1.6

Graphing 1.1: pp. 72-74 9-49 EOO, 57-69 EOO, 75-91 EOO
Functions and Graphs 1.2: pp. 86-90 1-81 EOO
Equations of Lines and Modeling 1.3: pp. 103-106 1-77 EOO
Linear Equations, Functions 1.4: pp. 118-120 1-65 EOO
Solving Linear Inequalities 1.5: pp. 133-137 1-89 EOO

Chapter 2, 2.1 - 2.5

Functions 2.1: pp. 166-170 1-61 EOO
The Algebra of Functions 2.2: pp. 177-178 1-65 EOO
The Composition of Functions 2.3: pp. 185-187 1-65 EOO
Symmetry and Transformations 2.4: pp. 206-208 1-113 EOO
Variation and Applications 2.5: pp. pp. 217-219 1-37 EOO

Chapter 3, 3.1 - 3.5

The Complex Numbers 3.1: pp. 239-240 1-85 EOO
Quadratic Equations, Models 3.2: pp. 253-256 1-113 EOO
Graphs of Quadratic equations 3.3: pp. 267-269 1-53 EOO
Rational and Radical Equations 3.4: pp. 278-279 1-85 EOO
Solving Equations and Inequalities with Absolute Values 3.5: pp. 283-284 1-61 EOO

Chapter 4, 4.1 - 4.6

Polynomials Functions and Models 4.1: pp. 306-308 1-53 EOO
Graphing Polynomials Functions 4.2: pp. 318-319 1-53 EOO
Polynomial Division, The remainder Theorem 4.3: pp. 326-327 1-53 EOO
Zeroes of Polynomials Functions 4.4: pp. 337-339 1-97 EOO
Rational Functions 4.5: pp. 357-359 1-85 EOO
Polynomial and Rational inequalities 4.6: pp. 368-370 1-81 EOO

Chapter 5, 5.1 - 5.6

Inverse Functions 5.1: pp. 396-399 1-89 EOO
Exponential Functions and Graphs 5.2: pp. 408-412 1-73 EOO
Logarithmic Functions and Graphs 5.3: pp. 426-428 1-101 EOO
Properties of Logarithmic Functions 5.4: pp. 437-438 1-73 EOO
Solving Exponential and Logarithmic equations 5.5: pp. 448-449 1-61 EOO
Applications and Models 5.6: pp. 459-463 1-21 EOO

Chapter 6, 6.1 - 6.6, 6.8

Systems of Equations in 2 Variables 6.1: pp. 490-493 1-73 EOO
Systems of Equations in 3 Variables 6.2: pp. 499-502 1-33 EOO
Matrices and Systems of Equations 6.3: p. 510 1-41 EOO
Matrix Equations 6.4: pp. 520-522 1-45 EOO
Inverses of Matrices 6.5: pp. 530-531 1-41 EOO
Determinants and Cramer's Rule 6.6: pp. 538-539 1-41 EOO
Partial Fraction Decomposition 6.8: pp. 557-558 1-25 EOO

Chapter 7, 7.1 - 7.4

Parabola 7.1: pp. 578-579 1-33 EOO
The Circle and the Ellipse 7.2: pp. 588-590 1-53 EOO
The Hyperbola 7.3: pp. 600-601 1-37 EOO
Nonlinear Systems of Equations and Inequalities 7.4: pp. 611-613 1-81 EOO