

**MAT 137, INTERMEDIATE ALGEBRA, Spring 2018, 12383,  
TR 8:00 – 9:15am room D109  
Elizabeth Allen**

**PREREQUISITE:** MAT\* K095 or MAT\* K095I with a "B-#" grade or better or appropriate placement through multiple-measures assessment process.

**TEXT:** Elementary and Intermediate Algebra, 5th edition by Baratto and Bergman  
ALEKS Access: **Class Code:** ELYXV-H4HYY

**COURSE**

**DESCRIPTION:** This 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.

Please note: A graphing calculator is required. Instructor will use a Texas Instrument calculator (TI-84).

**Office Hours:** Mondays 2:00 – 3:00 pm  
Tuesdays 11:00 – 12:00 noon  
Wednesdays 2:00 – 3:00 pm  
Thursdays 11:00 – 12:00 noon  
or by appointment in C206  
**Email** [ellen@trcc.commnet.edu](mailto:ellen@trcc.commnet.edu) , Phone (860) 215-9452

**ATTENDANCE:** Your attendance in the classroom during class time, 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, you must email me prior to a missed class. An absence is excused only for valid reasons (to be determined by the instructor) and if notification is given prior to a missed class via email or phone message. (If a phone message is left it must be followed up with an email to count as an excused absence.) All students start the semester with 50 "bonus" Attendance/Participation points. Points will be deducted for unexcused absences, late arrivals, early departures, cell phone, tablet or computer use during class time. Makeups for tests will be given only for **EXTREME** circumstances and if arrangements are made prior to the missed exam (documentation will be required at the instructor's discretion). Any makeup must be completed before the next class period starts and will be completed in the testing center. If you are not in class on these days or do not complete them in time then you will receive a 0. All written assignments are due at the beginning of class on the due date. If you do not hand in an assignment this way you will receive a 0.

**Please note** that this class begins at 8:00 am and ends at 9:15 am. You are expected to be in class the entire time or you will lose points for attendance/participation.

**MEASUREMENTS:** 3 tests 100 points each 300

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|            |                |     |
|------------|----------------|-----|
| 4 quizzes  | 25 points each | 100 |
| ALEKS      | see below      | 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, UF if the student completed less than 60% of work.

**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 four (4) Intermediate Objectives. Completion of each Intermediate Objective by its specified due date is worth a total of 100 points (20 points per Intermediate Objective and 20 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.

**Cell Phone Policy:** All cell phones must be turned OFF or MUTED before entering the classroom and properly placed in a bag or pocket (not left on a desk). Cell phones may not be used for calculators in class. A visible cell phone during an exam will result in a 0 for that exam.

**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. If for some reason, I need to cancel class I will post an announcement in Blackboard. You should set up your school email so that it will forward to your personal email so you can receive these notifications in a timely manner.

**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.

**Plagiarism and Academic**

**Honesty:** Academic integrity is essential in all aspects of college coursework and learning. I have zero tolerance for academic dishonesty. It is expected that **YOU** complete all your assigned ALEKS work. Communication or collaboration of ANY sort is **ABSOLUTEY PROHIBITED** during any exam. Academic Misconduct is punishable in a number of ways, including a score of a zero on the assignment where the cheating took place, a grade of an F in the course and/or possible censure on your permanent record. All cases of academic dishonesty will be referred to the Academic Dean. Do not let yourself come under the suspicion of academic dishonesty.)

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**Disabilities** Students with learning disabilities should contact the Learning Specialist, Matt Liscum, at 860-215-9265 or via email at [mliscum@trcc.commnet.edu](mailto:mliscum@trcc.commnet.edu) as soon as possible to ensure timely accommodations. Students with physical disabilities should contact Elizabeth Willcox at 860-215-9289 or via email at [ewillcox@trcc.commnet.edu](mailto:ewillcox@trcc.commnet.edu) to facilitate accommodations. All testing accommodations **MUST** be discussed with the instructor in a timely manner, that is, *at least* one to two class meetings **prior** to any scheduled test for which accommodations are needed.

**Digication:** All students are required to maintain an online learning portfolio in Digication that uses the college template.

**BOARD OF REGENTS FOR HIGHTER EDUCATION AND CONNECTICUT STATE COLLEGES AND UNIVERSITIES POLICY REGARDING SEXUAL MISCONDUCT REPORTING, SUPPORT SERVICES AND PROCESSES POLICY**

**Statement of Policy for Public Act No. 14-11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:**

Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in education programs and activities in federally funded schools at all levels. If any part of a school district or college receives any Federal funds for any purpose, all of the operations of the district or college are covered by Title IX.

Title IX protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students (as well as other persons) at recipient institutions are protected by Title IX – regardless of their sex, sexual orientation, gender identity, part-or full-time status, disability, race, or national origin-in all aspects of a recipient’s educational programs and activities.”

If any student experiences sexual misconduct or harassment, and/or racial or ethnic discrimination on Three Rivers Community College Campus, or fears for their safety from a threat while on campus, please contact Vicki Baker, the Diversity Officer and Title IX Coordinator: 860-215-9208 ([vbaker@trcc.commnet.edu](mailto:vbaker@trcc.commnet.edu))

**Acceptance Policy:**

After reading this syllabus, choosing to stay registered for this course exemplifies your acceptance of the syllabus and all policies and consequences outlined in the syllabus. If you do not agree with any of the terms in the syllabus, you are free to withdraw.

**Class Expectations:**

The expectation is that you are spending 2-3 hours of reading and doing homework for this class for every “academic” hour we meet in class. We meet 3 “academic” hours per week, therefore you should expect to spend **at least 6 - 9 hours per week** on this class, outside of class meetings, every week!

**Disclaimer:** The instructor has the right to change/modify this syllabus at any time with proper notification to the class.

At the completion of MAT 137, the student will be able to do the following:

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**FACTORING**

- 1) Factor monomials
- 2) Factor polynomials by grouping
- 3) Factor perfect square trinomials, difference of squares, sum/difference of cubes
- 4) Factor quadratics

**Quadratic Functions and/or Expressions**

- 1) Provide multiple representations of quadratic functions or expressions by hand and using technology
- 2) Determine identifying characteristics of quadratic functions or expressions (e.g., factors)
- 3) Evaluate, simplify, and perform operations on quadratic functions or expressions
- 4) Solve quadratic equations algebraically (e.g., factoring, completing the square, and quadratic formula) and graphically
- 5) Solve real world applications involving quadratic equations and functions

**Radical Functions and/or Expressions**

- 1) Provide multiple representations of simple radical functions or expressions by hand and using technology, with primary emphasis on square root
- 2) Determine identifying characteristics of radical functions or expressions
- 3) Evaluate, simplify, and perform operations on simple radical functions or expressions
- 4) Solve simple radical equations algebraically and graphically
- 5) Solve real world applications involving radical functions
- 6) Identify imaginary numbers

**Rational Functions and/or Expressions**

- 1) Provide multiple representations of simple rational functions or expressions by hand and using technology
- 2) Determine identifying characteristics of rational functions or expressions
- 3) Evaluate, simplify, and perform operations on simple rational functions or expressions
- 4) Solve simple rational equations algebraically and graphically
- 5) Solve real world applications involving rational functions

**Exponential Functions and/or Expressions**

- 1) Provide multiple representations (e.g., tables, graphs, symbols) of exponential functions or expressions by hand and using technology
- 2) Determine identifying characteristics of exponential functions or expressions
- 3) Evaluate, simplify, and perform operations on exponential functions or expressions
- 4) Identify real world applications involving exponential functions

**Mathematical Practices**

- 1) Make sense of problems and persevere in solving them.
- 2) Reason abstractly and quantitatively.
- 3) Construct viable arguments and critique the reasoning of others.
- 4) Model with mathematics.
- 5) Use appropriate tools strategically.
- 6) Attend to precision.
- 7) Look for and make use of structure.