

# Syllabus for Spring 2019 MATH 0965 Section 13587

Cuyahoga Community College Business, Technology & Mathematics Eastern Campus

Course: MATH 0965 Intermediate Algebra

Lecture Hours: 06 hours Laboratory Hours: 00 hours

Instructor: Mike McCraith

Office: EMHC 210 Office Phone: 216-987-2320

Office Hours: MW 9:30 - 10:00 am, 11:30 am - 1:00 pm  
TTH 10:00 am - 1:00 pm

Email: mike.mccraith@tri-c.edu

Website: <http://www.mathaccordingtomike.com>

Text: Elementary and Intermediate Algebra, 5<sup>th</sup> edition, Tussy and Gustafson

Scientific Calculator Recommended

Section 13584: TTH 1:00 - 2:40 pm EMHC 119

## Prerequisites

Math 0955, or sufficient score on math placement test; or departmental approval. Math 0960 and Math 0980 taken prior to Fall 2016

## Course Description

Second of two developmental mathematics courses. Topics include factoring, solving equations by factoring, rational expressions, rational equations, systems of three linear equations in three variables, radical expressions, radical equations, expressions with rational exponents, equations with rational exponents, quadratic equations involving the Zero Product Property, Square Root Property, Completing the Square, and the Quadratic Formula, graphing quadratic functions, exponential expressions, and graphing exponential functions. Includes applications and activities to build skills in problem solving.

## Class Schedule

For the first few minutes of class (on test days), I will go over exercises that the student could not complete. The person who asks a question may be asked what they did not like about the problem or what they didn't understand. A traditional lecture will occur on the first half of the course, and if time permits, the other half will be used for homework and group work. Bring your printed out homework and/or laptop to every class!

## Attendance

It is your responsibility to attend every class. The more classes you attend, you increase the chance of a better grade. **You are also responsible to find out what you missed and your responsibility to contact a classmate for any notes you have missed.** Students are expected to arrive on time and stay for the entire class.

Regular class attendance is expected. Tri-C is required by law to verify the enrollment of students who participate in federal Title IV student aid programs and/or who receive educational benefits through other funding sources. Eligibility for federal student financial aid is, in part, based on your enrollment status.

Students who do not attend classes for the entire term are required to withdraw from the course(s). Additionally, students who withdraw from a course or stop attending class without officially withdrawing may be required to return all or a portion of the financial aid based on the date of last attendance. Students who do not attend the full session are responsible for withdrawing from the course(s).

Tri-C is responsible for identifying students who have not attended a course, before financial aid funds can be applied to students' accounts. Therefore, attendance will be recorded in the following ways:

For online courses, students are required to login in at least two (2) times per week and submit one (1) assignment per week for the first two (2) weeks of the semester, or equivalent to the 15th day of the term. Students who have not met all attendance requirements for an online course, as described herein, within the first two weeks of the semester, or equivalent, will be considered not attending and will be reported for non-attendance and dropped from the course.

At the conclusion of the first two weeks of a semester, or equivalent, instructors report any registered students who have "Never Attended" a course. Those students will be administratively withdrawn from that course. However, after the time period in the previous paragraphs, if a student stops attending a class, wants or needs to withdraw, for any reason, it is the student's responsibility to take action to withdraw from the course. Students must complete and submit the appropriate Tri-C form by the established withdrawal deadline.

Tri-C is required to ensure that students receive financial aid only for courses that they attend and complete. Students reported for not attending at least one of their registered courses will have all financial aid funds held until confirmation of attendance in registered courses has been verified. Students who fail to complete at least one course may be required to repay all or a portion of their federal financial aid funds and may be ineligible to receive future federal financial aid awards. Students who withdraw from classes prior to completing more than 60 percent of their enrolled class time may be subject to the required federal refund policy.

If illness or emergency should necessitate a brief absence from class, students should confer with instructors upon their return. Students having problems with class work because of a prolonged absence should confer with the instructor or a counselor.

## Homework, Quizzes, and PowerPoint Package

Homework is posted on the site <http://www.webassign.net>. The class key is [cuyahoga 3970 6494](#). I highly recommend printing out the homework, doing the problems on paper, and then logging back in to submit answers. Homework is graded without partial credit. Each section is worth 5 points.

Quizzes are also posted on this site. Quizzes cover the entire material that a test will cover and are worth 20 points. You have only one attempt, so be sure to treat it like an exam. Make sure you stay organized as you do your homework and quizzes to ensure full credit is received.

As the course progresses, all of the planned class examples will be recorded and the videos will be posted on YouTube and also on my website. Corresponding to each section of the text is a PowerPoint slide with the examples already typed. You can find these slides on Blackboard. You will be required to come to class with these slides and write the answer to the exercise as we work it out together in class. They are worth 10 points per test. **Whatever sections the test covers is what you will need to turn in for your PowerPoints on the Thursday of test week by 1:00 pm.**

## Grade Replacement Policy

If all homework assignments are turned in on time and a score of 70% or higher is received on all homework assignments, then the lowest test score is **replaced** by the Final if the Final is higher. The student has the option of doing the Grade Replacement Redemption Project (see below) to earn back the Grade Replacement Policy. Otherwise, all quiz, tests, and Final scores are kept.

### Grade Replacement Redemption Project

If a student fails to turn in the homework on time, does not show work for the homework, or does not the majority of each homework assignment, the student will lose the Grade Replacement Policy. The student can get back the Policy if they were to write a sincere two-page paper discussing the importance of following directions and how this will affect their college life and their career after college.

The paper will need to use the Times New Roman font of size 12, double-spaced, and stapled. Papers that do not conform to the topic will not be accepted. This project is only offered on the first instance the Policy is lost. On the second instance, the Policy is permanently lost. If a student lost the Policy due to cheating, this Project cannot bring it back. The paper is due one week after the Policy was lost.

### Partial Credit Policy

While grading tests, partial credit will be given based on the amount of work shown and how correct the work is. For example, a student who gets their answer straight from the calculator without showing any work will receive very few points—even if the answer is correct. Whereas a student who does the correct work but somehow arrives at an incorrect answer will receive the majority of the credit. Arithmetic mistakes warrant only a few points lost; however, conceptual errors will not earn many points of partial credit. I understand that there are times where you must use the calculator to get the answer, and thus in those cases, the policy does not apply.

### Tests

Tests will be taken in the testing center. Tests will open up on Tuesday of the testing week and close on Thursday. It is up to you to determine the testing center's hours and ensuring that you have two hours to take the exam. They are located in ESS 1108. A 200-point Final will be given on the last day of class in the classroom. Tests may consist of homework-style problems, true/false, and short answer. **The tests and Final must be done in pencil. A test not done in pencil or one that is done in poor handwriting will not be graded. All steps must be shown on the test or full credit will not be given (in Math, how you get the answer is sometimes more important than the actual answer.)** It is your responsibility to check the hours of the Testing Center and to arrive at least two hours before they close.

It is *highly* recommended that you view the previous tests using the Web site. On the Website, click on "Classes" and then on "Math 0965". Take those tests and use the answer keys to check your work.

### Make-ups

There will be no make-ups offered for any reason. Be sure to have all materials on the day and by the time that they are required which is the beginning of class. Materials turned in after the class has begun will not be graded. If you know you will not be able to make it to class when an assignment is due, you can send a scanned copy of your work to my email. You may also take a photo with your cell phone and email it to me. Make sure the file size is not large or the email may not be received. The deadline for scanned material remains the same as if you were in class. **Extra time will NOT be given for any reason.**

### Disruptive Behaviors

During class, cell phones are considered to be participating in disruptive behavior and will not be tolerated in class. **Anyone using one to text message during any class period will be asked to leave for that day.**

Other items in this category are fidget spinners and vaping. Please refrain from using these items in class. More items might be added to this list as the course progresses.

### Cheating Policy

Cheating will not be tolerated by the instructor. It includes having any extra materials not approved by the instructor. Cheating also includes having these materials in your possession. For instance, if you borrow a calculator, you are obligated to make sure there are no formulas in the calculator.

Misuse of external resources (including, but not limited to, other texts, the internet, and the student solution manual) by submitting work that is not their own also constitutes cheating. For example, if a student copies from the student solution manual and turns that in as their homework, it is considered cheating. If you do not understand how to get the answer, do not simply copy down the work from an external source. Instead, ask me to help you with the problem. Copying down from an external source does not demonstrate mastery of the material and will not help you on the exam and on the final. Never give me the impression that you are cheating. Never look over at other student's work and never talk during the quiz or test for any reason.

On the first instance of cheating, the grade received for that entire assignment/exam will be a zero, and the final grade will be lowered by one letter. For the second instance of cheating, automatic failure in the course will result and a Student Conduct Hearing will take place. See the Student Handbook for more information.

### Instructor's Expectations

Please be courteous to all members of the class. Actions deemed rude such as disruptive behavior, including talking, whispering, tardiness, early departure or insulting or disrespectful comments or actions towards anyone will not be tolerated. Math is a difficult subject for most people, so I strongly encourage you to ask any questions you may have (without having to worry.)

**Come to class prepared for the day's lesson by reading ahead.** This is the best way to take more out of the day's lecture. Be sure homework is done in a timely manner and that you adequately schedule your time to include homework and studying. Studying only a "couple hours" for a test is never enough. Be sure to start to study for a test at least 2 days before the test. That way, you leave enough time for the material to be understood and to ask any questions. Do not wait until the last minute to get the help you might need! If you do not ask questions when you have them, then you are shorting yourself of an opportunity to learn the material. I will answer all questions in a respectful, patient, and timely manner.

As for a hint: be sure not to only write down what I write down on the board, but also what I say *in between* the steps. This will greatly help you as you study. Also, if you need to audio record the class, feel free to do so. Believe it or not, this could help you fill in the gaps to your notes. Please, no children in the class.

### Assistance

Tutoring is available in the Learning Center (ESS 1202) on a free, walk-in basis. Free online tutoring is available with a link under Student Services in My Tri-C Space through eTutoring and Smarthinking.

### Disabilities

Students with disabilities at Cuyahoga Community College are expected to take an assertive role in communicating with faculty and staff members about their need for reasonable accommodation. If you need course adaptations or accommodations because of a disability, you should contact the ACCESS Office located in ESS1213-1216. The ACCESS office phone number is 216-987-2052.

## Grading

Grades will be based on the following†:

About Me*	10
Weekly Planner*	10
Syllabus Quiz	15
Quizzes	100
Homework*	175
PowerPoint Package*	50
Exams	500
Final	200
<b>TOTAL</b>	<b>1060</b>

Final grades are based on:

Percent	Points	Final Grade
90 - 100	954 - 1060	A
80 - 89	848 - 953	B
70 - 79	742 - 847	C
60 - 69	636 - 741	D
0 - 59	Below 636	F

† Total point value subject to change due to time

\* Graded on an all-or-nothing basis

## College Calendar

Date	Calendar Description
January 14, 2019	Spring Semester Begins
January 21, 2019	Martin Luther King Day - College Closed - No Classes Scheduled
January 28, 2019	Last Day to Withdraw from Full Term with NO RECORD
March 11-17, 2019	Spring Break - No Classes Scheduled
March 22, 2019	Academic Progress Reporting for Full Term Due
April 12, 2019	Last Day to Withdraw from Full Term Course with a "W" Grade
May 6-12, 2019	Final Exam Week - Full Term
May 12, 2019	Spring Semester Ends
May 14, 2019	Final Grades Due
May 16, 2019	Commencement

## Incomplete Grades

The grade "I" is only given if a student meets **both** of the following conditions:

a) The student has a **passing status** in the class and has completed at least 70% of the course work, AND

b) The student is unable to complete the rest of the required course work due to circumstances *judged by me* to be beyond his/her control.

A notation of "I" indicates that you must complete the course requirements within five (5) weeks of the next semester (summer excluded) or the "I" will be automatically changed to an "F". See Student Handbook for more information.

## Extra Information

Office hours! Use them to your advantage. Let no question go unasked. **Be sure to have your questions prepared in advance to maximize efficiency during office hours.** There is not time to redo the lecture during office hours so come prepared to ensure all students are given a chance for help.

I am also available for online tutoring using Skype. Use my Tri-C email address to find me on Skype. **If you wish to meet with me, please give me advance notice by emailing me at my Tri-C address.** I do not log on unless I know someone is there.

I have also made videos for this course. On the website, click on "Videos" and select your course. These videos are large in size and will take a little while to load, but they are very useful when you need to see another example or review the example that was done in class.

## Concealed Carry Statement

College policy prohibits the possession of weapons on college property by students, faculty and staff, unless specifically approved in advance as a job-related requirement (i.e., Tri-C campus police officers) or, in accordance with Ohio law, secured in a parked vehicle in a designated parking area only by an individual in possession of a valid conceal carry permit. As a Tri-C student, your behavior on campus must comply with the student code of conduct which is available on page 29 within the Tri-C student handbook, available at <http://www.tri-c.edu/student-resources/documents/studenthandbook.pdf>. You must also comply with the College's Zero Tolerance for Violence on College Property available at <http://www.tri-c.edu/policies-and-procedures/documents/3354-1-20-10-zero-tolerance-for-violence-policy.pdf>

## Academic Course Credit

In order to award one semester hour of college credit, the Ohio Board of Regents requires two hours of significant student study outside of class for each one hour in class for the equivalent of an academic semester (16 weeks). This is a six credit hour class taught in sixteen weeks. Therefore, the required course load requirement is 6 hours in class each week and an average of 12 hours each week outside of class for the semester to earn six semester hours of college credit. Thus, this six credit hour course requires an average of 18 hours of effective student effort per week for the entire semester.

## Withdrawal

Students may withdraw from any semester course prior to the end of week 12 of the full semester or 80 percent of any instructional part of semester. Specific withdrawal dates are available by semester in any Enrollment Center or published in the schedule of courses. Students must submit a completed withdrawal form or follow the approved electronic process when available. The refund schedule for all parts of semester and the Summer Session is determined in proportion to the full semester schedule as established by College procedure. Up to the last day of week 12 of the full semester, a student may withdraw from a course(s) for any reason. Withdrawal from a course prior to the last day of the second week of the semester will have no notation made noted with a "W." Regular class attendance is expected. Tri-C is required by law to verify the enrollment of students who participate in Federal Title IV student aid programs and/or who receive educational benefits through other funding sources. Tri-C is responsible for identifying students who have not attended or logged into a class for which they are registered. At the conclusion of the first two

weeks of a semester, instructors may report any registered students who have "Never Attended" a class so that those reported students will be administratively withdrawn from that class. However, it is the student's responsibility to withdraw. Withdrawals related to student conduct are administrative withdrawals processed by the Dean of Student Affairs, using the appropriate Tri-C form, from any class which she/he is no longer attending or risk receiving a failing grade in that class. Student's wishing to withdraw must complete and submit the appropriate Tri-C form by the established withdrawal deadline. All transactions involving withdrawal from courses shall be done in writing and on forms provided by Tri-C or through electronic means. A student's failure to attend classes shall not constitute an official withdrawal. (Student Handbook)

The last day to withdraw with NO RECORD is Monday, January 28, 2019. The last day to withdraw with a "W" grade is Friday, April 12, 2019.

**Topics you should already know from Math 0955:**

- A. Simplify basic algebraic expressions in one variable.
- B. Solve linear equations and linear inequalities in one variable.
- C. Define, evaluate, and perform operations on polynomial functions.
- D. Identify components of the rectangular coordinate system, determine the equations of lines, and graph lines and inequalities.
- E. Solve systems of linear equations and inequalities in two variables.
- F. Simplify, evaluate, and perform operations on polynomials and expressions involving exponents.

**PERFORMANCE OBJECTIVES:**

Upon successful completion of MATH-0965 Intermediate Algebra, the student should be able to:

- A. Factor polynomials and solve equations by factoring.
- B. Simplify rational expressions and solve rational equations.
- C. Solve systems of linear equations in three variables.
- D. Graph radical expressions, simplify radical expressions, simplify expressions containing rational exponents, and solve radical equations and equations with rational exponents.
- E. Solve quadratic equations and graph quadratic equations.
- F. Define and evaluate exponential expressions and graph exponential functions.

## Due Dates

Step 1: Get a daily planner

Step 2: Write these dates in the planner

Step 3: Become organized

The first date is when the item is available. The second date is when it is due.

### Homework Assignments and Quizzes Due Dates

Test 1 Sections: Tuesday, January 15 - Thursday, February 14

Test 2 Sections: Tuesday, February 12 - Thursday, March 21

Test 3 Sections: Tuesday, March 5 - Thursday, April 11

Test 4 Sections: Tuesday, April 9 - Thursday, May 2

### Testing Dates

Test 1 Tuesday, February 12 - Thursday, February 14

Test 2 Tuesday, March 19 - Thursday, March 21

Test 3 Tuesday, April 9 - Thursday, April 11

Test 4 Tuesday, April 30 - Thursday, May 2

All homework and quizzes are due at 1:00 pm of the second date listed. No exceptions for any reason.

The Class Key is cuyahoga 3970 6494.

### Helpful links:

1. <http://screencast.com/t/dwrJebwE8X2> - How to register your EWA course key
2. <http://screencast.com/t/sFpBzMzryv> - How to navigate the YouBook and Homework Assignments
3. [http://www.webassign.net/manual/student\\_guide/t\\_s\\_graphing\\_tool\\_videos.htm](http://www.webassign.net/manual/student_guide/t_s_graphing_tool_videos.htm) - How to use the graphing tool
4. [http://www.webassign.net/manual/student\\_guide/t\\_s\\_answering\\_mathpad.htm](http://www.webassign.net/manual/student_guide/t_s_answering_mathpad.htm) - How to use the MathPad

# Math 0965-13587 Extremely Tentative Schedule

Day of	Sections Covered
January 15, 17	<b>Introduction</b> 6.1 The Greatest Common Factor; Factoring by Grouping 6.2 Factoring Trinomials of the Form $x^2 + bx + c$
January 22, 24	6.3 Factoring Trinomials of the Form $ax^2 + bx + c$
January 29, 31	6.4 Factoring Perfect Square Trinomials and the Difference of Two Squares 6.5 Factoring the Sum and Difference of Two Cubes
February 5, 7	6.6 A Factoring Strategy 6.7 Solving Quadratic Equations by Factoring 6.8 Applications of Quadratic Equations
February 12, 14	<b>Test 1 (Chapter 6) Available February 12 - February 14</b> 7.1 Simplifying Rational Expressions 7.2 Multiplying and Dividing Rational Expressions
February 19, 21	7.3 Adding and Subtracting with Like Denominators; Least Common Denominators 7.4 Adding and Subtracting with Unlike Denominators 7.5 Simplifying Complex Fractions
February 26, 28	7.6 Solving Rational Equations 7.7 Problem Solving Using Rational Equations
March 5, 7	8.9 Variation 12.2 Solving Systems of Equations in 3 Variables
March 12, 14	<b>Spring Break! Celebrate National Pi Day March 14<sup>th</sup>!</b>
March 19, 21	<b>Test 2 (Chapter 7 and 8.9) Available March 19 - March 21</b> 12.3 Problem Solving Using Systems of 3 Equations 9.1 Radical Expression & Rational Functions
March 26, 28	9.2 Rational Exponents 9.3 Simplify & Combine Radical Expressions 9.4 Multiplying and Dividing Radical Expressions
April 2, 4	9.5 Solving Radical Equations 9.7 Complex Numbers
April 9, 11	<b>Test 3 (12.2, 12.3 and Chapter 9) Available April 9 - April 11</b> 10.1 The Square Root Property and Completing the Square 10.2 The Quadratic Formula
April 16, 18	10.3 Discriminant and Equations Quad in Form 10.4 Quadratic Functions and Their Graphs
April 23, 25	11.3 Exponential Functions 11.7 Exponential and Logarithmic Equations
April 30, May 2	<b>Test 4 (Chapter 10, 11.3, 11.7) Available April 30 - May 2</b> Review
Tuesday, May 7	<b>Final 1:45 - 3:45 pm</b> <b>Same Classroom</b>