



Course Syllabus
SEMESTER
School of Science, Technology, Engineering, and Mathematics

Introduction Information

Course Name: College Algebra Pathway

Course & Section Number: MTH070 - XXX

Meeting Day(s) and Time(s):

Credits: 6

Instructor's Name:

Office Hours Office Hours & Location:

Campus Phone:

Campus E-mail: For Immediate response: EMAIL

*Please use your Owens email to contact me.

Health & Safety Information: Please note that while unlikely, there is a possibility courses might need to change the delivery method due to public health concerns. If this happens, the college will communicate any changes via email and/or other communication methods.

If you are not able to come to class because you are ill, please let me know as soon as possible. I will do my best to make arrangements for you to make up the work you missed, if practicable.

Currently, masks are allowed but not required on campus; however, this requirement may change depending on circumstances. If changes are made, you will be informed via email and/or other communication methods.

Classroom Admittance: OCC classes (e.g., traditional, land-based, laboratory, hybrid, asynchronous online, synchronous online, etc.) shall only be attended by the officially registered OCC students, instructor of record, guest lecturer, or substitute. Visitors are not permitted in the classroom and should not be invited to attend or participate in the class. See [FERPA](#) for specifics.

General Information:

Student Code of Conduct: All students are expected to follow Owens Community College's [Student Code of Conduct](#), which includes academic honesty, encompassing plagiarism. See the [Board Policy](#) for more information.

Anti-Discrimination and Harassment & Title IX/Sexual Misconduct: All students, faculty, and staff are expected to follow Owens Community College's [Anti-Discrimination and Harassment Policy](#) and the College's [Title IX Policy](#)/Sexual Misconduct Procedures and Guidelines. The College strictly prohibits and will not tolerate harassment, discrimination, intimidation, or hostile/offensive working or learning environments.

Religious Accommodations: A student seeking an accommodation for an absence permitted under Ohio's Testing Your Faith Act must provide the instructor with a **written email** notice with the specific dates for an absence, and must do so not later than fourteen (14) days after the first day of instruction. **Alternative accommodations are not retroactive, and no academic penalty will be imposed for an absence under the policy***. The request for an alternative accommodation will be kept confidential. Students with questions about a religious accommodation under Ohio's Testing your Faith Act may contact the College's Office of Academic Affairs: provost@owens.edu

*The policy may be found on the Owens website: [3358:11-2-63 Accommodation](#) for a Student Absence for the Observance of Religious Beliefs and Practices Policy

Document Collection: Throughout the semester, your instructors may ask for a variety of assignments or they may give you tests and/or quizzes for student learning of general education or program assessment. Please save all of your materials until the end of the semester.

What will I learn in this course?

Catalog Description:

This class is intended to equip students with a competency in algebra skills required for College Algebra. This course provides a study of polynomials, factoring, solving quadratic equations, rational expressions and equations, inequalities, functions, graphing functions, radical expressions and equations, complex numbers, function operations, composite and inverse functions, exponential and logarithmic functions. (Not for graduation credit.)

Prerequisites:

None

Course Materials:

Textbook:

Julie Miller, Molly O'Neill, Nancy Hyde, *Developmental Mathematics: Prealgebra, Beginning Algebra, & Intermediate Algebra*, 2nd Edition McGraw-Hill Science/Engineering/Math, 2022.

Calculator: Graphing calculator with statistical capabilities is required (such as the TI-84).

*If a **print book, e-book, or access code** is required, you can access the Owens Community College e-Campus Bookstore by accessing the online link, called “Find Books” on the course schedule for each course section. See the example below.*

60483	ACC239-226	Quickbooks				3	\$95	25	6
Full Term		August 28 - December 14, 2023		Web Based Course		[Course Info] [Find Books] [Webcourse Info]			
	-	Aug. 28 - Dec. 14, 2023		J. Rosenthal		Class		Online (traditional)	
Class requires computer and Internet access									
Course Attributes: General Elective									
Last day to add: Sep. 01, 2023 -- Last day to drop: Dec. 14, 2023									
Refund deadlines: Sep. 01, 2023 (full refund) -- Sep. 08, 2023 (60%) -- Sep. 15, 2023 (50%)									
Lab Fee Breakdown: Course Materials \$35, E-Learning \$60									

Inclusive Access (I.A.) Materials are included in the cost of the course as a way to save students money through lower negotiated rates with publishers as per the state of Ohio. This means if your course includes I.A. digital materials, you will receive an email with subject line, “Your inclusive Access Materials,” and it will include any codes or digital links. The email will come to your Owens Community College email from the Owens e-Campus Bookstore on the first day of class, if not before. Be sure to check your spam (junk email) if you do not find it in your inbox. If the email is not in your inbox or spam folder, contact your instructor. If the I.A. materials also include or are just in print form, the item will be shipped to you address of record automatically based on your enrollment in the course. Please note that some courses do not include print form I.A; they would need to be purchased separately using the “Find Books” link on the course schedule.

You will need access to a computer, reliable Internet connection, and capability to create Microsoft Word documents.

Course Objectives:

The primary objectives of this course are to reinforce and build upon the math skills introduced in students’ previous coursework and present algebra concepts in preparation for College Algebra.

Student Learning Outcomes:

To successfully complete MTH 070 a student will:

1. Solve linear equations and inequalities.
2. Perform operations with polynomials, factor polynomials, and solve quadratic equations.
3. Simplify, multiply, add and subtract rational expressions and solve rational equations.
4. Determine if a relation is a function, evaluate and perform operations on functions.

5. Graph linear, quadratic, cubic, absolute value and radical functions.
6. Simplify expressions containing radicals, perform operations on radical expressions, and solve equations containing radicals.

What will our classroom environment be like?

Respectful Class Communication: [\[See addendum for possible language.\]](#)

Inclusion/Belonging (or DEI) Statement: [\[See addendum for possible language.\]](#)

How will the grade be determined and what are the major assignments for the semester?

This course is a Pass/Fail course and does not count towards graduation. Grades will be calculated on the following scale:

Weighted Grade Scheme:

The final course grade is to be computed using the following weights:

Evaluation Measure	Value	Outcome Assessed
Attendance and In-Class Participation	10%	1-6
Homework	20%	1-6
Classwork	10%	1-6
Knowledge Checks	10%	1-6
Quizzes	40%	1-6
Final Exam	10%	1-6

75% and Above	PNP (Pass, No Points)
Less Than 75%	FNC (Fail, No Credit)

What are student and instructor responsibilities?

Formerly classroom or course policies. [\[See addendum for possible language for this section.\]](#)

Instructor Responsibilities:

Student Responsibility:

Assignment Calendar:

Check here for a schedule of daily objectives, check in, scheduled knowledge checks, pie progress, quizzes and the final exam. Refer to this calendar before each class period so that you are aware of what you will be doing each class period. If you miss a class period, the assignment calendar will point you to the missed material.

Classwork:

During class, you will be given a set of problems to complete. This activity will allow you to sharpen the skills you learned previous lecture. You will get a chance to check your classwork before the end of the class period. This will provide you with example problems to assist completing the Objectives in Aleks after class. You must be in attendance to complete classwork.

Homework:

You will use ALEKS to do your homework. The homework will consist of completing the scheduled section homework in Aleks.

At the beginning of each lecture, the due dates of upcoming homework assignments will be written on the board.

Knowledge Check

You will complete a schedule knowledge check during the semester. Each knowledge check will determine what you have mastered and what needs more work.

Quizzes (40%)

There will be quizzes throughout the semester. The scheduled knowledge checks will help you determine what material needs to be clarified before you take the quiz.

Final Exam (10%)

A comprehensive Final Exam will be given during the last week of the semester. The Student Learning Outcomes will be used to determine material on the final exam.

Drop Date: The last day to drop this class is **Please see the following link.**
[What are the deadlines for dropping classes and obtaining a refund?](#)

How does the College support us?

Use this [link](#) for a listing of support resources such as **Campus Resources, Campus Life, Getting Around Campus, and Security.**

Assignment Calendar for College Algebra Pathway - Section

Week	Date	Activity/Section(s) to be Covered
1		Introduction to MTH070 10.8 Linear Inequalities (<i>Examples 1-5</i>)
		17.1 Compound Inequalities (<i>Examples 1 - 10</i>)
		17.3 Absolute Value Equations (<i>Examples 1 - 3, 5, 6</i>) 13.1 Multiplying and Dividing Expressions with Common Bases (<i>include Calculator Connections</i>)
2		TBD
		13.2 More Properties of Exponents
		13.3 Definitions of b^0 and b^{-n} (<i>Examples 1-6</i>)
3		13.4 Scientific Notation (<i>Examples 1-3; Calculator Connection</i>)
		13.5 Addition and Subtraction of Polynomials (Post Module Knowledge Check 1)
		13.6 Multiplication of Polynomials and Special Products
4		13.7 Division of Polynomial (<i>Examples 1-5</i>)
		14.1 Greatest Common Factor and Factoring by Grouping,
		14.2 Factoring Trinomials of the Form $x^2 + bx + c$
5		14.3 Factoring Trinomials: Trial-and-Error Method
		14.5 Difference of Squares and Perfect Square Trinomials
		14.6 Sum and Difference of Cubes
6		14.7 Solving Equations Using the Zero Product Rule (Post Module Knowledge Check 2)
		14.4 Factoring Trinomials: AC-Method (<i>Examples 1-3</i>) Review for Quiz 2, Quiz 2 (Sections 13.6-14.7)
		14.8 Applications of Quadratic Equations - Pythagorean Theorem (<i>Example 4 only</i>)
7		15.1 Introduction to Rational Expressions,
		15.2 Multiplication and Division of Rational Expressions
		15.3 Least Common Denominator
8		15.4 Addition and Subtraction of Rational Expressions (<i>Examples 1 - 7</i>)
		15.6 Rational Equations
		15.7 Applications of Rational Equations and Proportions (Post Module Knowledge Check 3)
9		16.1 Introduction to Relations (<i>Examples 1 - 4</i>) 16.2 Introduction to Function
		16.3 Graphs of Functions, <i>Including Calculator Connections</i>
		16.4 Algebra of Functions and Composition
10		Review for Quiz 3, Quiz 3 (Sections 14.8-16.2)
		18.1 Definition of an nth Root (<i>Examples 1 - 4, 6</i>)
		18.2 Rational Exponents (<i>Examples 1 - 4</i>)
11		18.3 Simplifying Radical Expressions (Post Module Knowledge Check 4)

			18.4 Addition and Subtraction of Radicals 18.5 Multiplication of Radicals
			18.6 Division of Radicals and Rationalization
12			18.7 Solving Radical Equations (<i>Examples 1 - 4</i>)
			18.8 Complex Numbers (<i>Examples 1 - 6</i>)
			Review for Quiz 4, Quiz 4 (Sections 16.3-18.7)
13			19.1 Square Root Property and Completing the Square (Post Module Knowledge Check 5)
			19.2 Quadratic Formula
			20.2 Exponential Functions
14			20.3 Logarithmic Functions
			TBD
			TBD
15			Review for Quiz 5, Quiz 5 (Sections 18.8-20.3) (Post Module Knowledge Check 6)
			Review for Final Exam
			Review for Final Exam
16			Comprehensive Final Exam

Disclaimer: “The instructor reserves the right to amend this syllabus as deemed necessary and will communicate such amendment to the students in the course.”