

**Edison State Community College
Fall 2026 Syllabus**

MTH 122S-802FS

College Algebra

Prerequisites:

Satisfactory math assessment score and three years of college preparatory mathematics or a grade of "C" or better in MTH-099D

Days: online

Instructor Name:

Dr. Brian Murphy , PhD, Atmospheric science, Purdue, 2015

Office Phone:

(937) 778-7945 MS, Physics, Purdue, 1983

Office Location:

West Hall 225

E-mail address:

bmurphy2@edisonohio.edu

Office Hours:

MW 7:30 – 9:00 AM; T 9:30 – 10:30 AM, M 3:00 – 5:00 PM
Online via teams 10:30 – 11:30 AM &arr.

Text

Narasimhan, Revethi, *College Algebra*, 2rd Ed., XYZ textbooks.

Calculator:

A scientific calculator.

Additional Resources:

Blackboard: <https://edisonohio.blackboard.com/ultra>

XYZ all access pass: <https://www.xyztextbooks.com/>, Respondus lockdown browser and a webcam

Faculty contact:

If you have questions or concerns, please contact me via email with the course name and number in the subject line (MTH 122 802FS) through your Edison State email. You are welcome to set up an appointment to meet virtually via Teams or stop by my office.

Grading:

Four components will determine your grade in this class. These components are

1) Homework, 2) Quizzes, 3) Exams, and 4) the comprehensive Final Exam.

Grading Allocation: Homework 20%, Quizzes 10%, Tests 51%, Final Exam 19%.

The grading scale is

90% - 100%	--- A
80% - 89%	--- B
70% - 79%	--- C
60% - 69%	--- D
0% - 59%	--- F

All scores will be maintained in Blackboard's online grade book.

Homework: Homework will be done online vis the XYZ portal. There will be homework assigned for each section of material in the text.

Tests: There will be three tests during the semester and a comprehensive Final Exam.

Makeups/Late submittals:

Late homework is not accepted even for good reasons. However, the lowest three scores will be dropped at the end of the semester.

Important Note about XYZ MATH: Any work completed after the due date is not counted toward your grade, but please go back and review your past homework assignments to help you study for exams.

Quizzes cannot be made up, but the lowest quiz score will be dropped before calculating the final grade.

Exams cannot be missed. Occasionally, with prior approval or with documented extreme circumstances, they can be made up, but this is entirely at the discretion of the instructor.

Submission of written documentation is required.

Attendance:

Students are expected to participate regularly in the online learning activities assigned as part of the course of instruction. You are responsible for all announcements and material assigned.

Final Withdrawal Date

Last day to withdraw for Fall semester 2026 semester is November 2.

Academic Honesty Statement:

By participating in this course, you agree that you will refrain from ANY academic dishonesty or deception, such as cheating, copying or plagiarism.

Expectations Outside of Class

Because this is a 3-credit hour, 16-week course, you can expect to spend 6 - 9 hours per week on assignments, homework, exams, asking questions/receiving tutoring, and studying. Late homework will absolutely not be accepted so it is in your best interest to work ahead and stay ahead.

Exams and Final Exam

You must access all exams using repondus lockdown browser. You will need a working webcam and microphone. It is possible you will run into technological issues when downloading the lockdown browser. Waiting until the last minute does not allow for time to work these issues out before the due date. Do not wait until the last minute to download the browser and take the exam! Technical issues do not warrant an extended due date. If you wait until the last minute and have trouble with the lockdown browser or any other technical issue you will not be allowed to take the test late. This includes thunderstorms which knock out power. You will be required to prepare for and take all exams on or before their scheduled dates and within the allotted time (75 minutes). You will be allowed one (1) attempt for each exam. Once you begin, you must finish the exam. You cannot stop and start again later.

There is a practice test posted in the “Start Here” folder that gives you a chance to be sure your computer is set and the lockdown browser is set up correctly. I encourage you to take this test in the first week of class so there is time to work through any issues that may arise.

The final exam is comprehensive. Your final exam must be completed on time_in order to pass the course. The final exam policies are the same as the unit exams.

Extra Credit

There will be no extra credit, so please do not ask for it.

Testing Your Faith Act Policy

Edison State Community College is committed to providing an environment respectful of students' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, <https://www.edisonohio.edu/Registration-and-Records/> and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at <http://stage.edisonohio.edu/digipub/StudentHandbook/index.html>.

NOTE: This syllabus and the information contained within it are subject to change without notice.

	Topics
Unit A	Week1: Sec R4: Polynomials R5: Factoring of polynomials R6: Rational expressions 1.1: Linear Equations and applications, Week 2: 1.2: Quadratic Equations and applications. 1.3: Complex Numbers and Quadratic equations. 1.4: Rational and Radical equations. 1.5: Linear inequalities. Test A taken by September 13, 2026
Unit 1	Week 3: Sec. 2.1: Lines and their graphs. 2.2: Coordinate Geometry, Circles, and Other Equations. Week 4: Sec. 2.3: Functions. 2.4: graphs of functions. 2.5: Linear Functions; Regression. Variation. Week 5: Sec. 2.6: Analyzing Graphs: Rate of Change; Difference Quotient. 2.7: The Algebra of functions. Week 6: 2.8: Transformation of the Graph of a function Quiz1 taken by September 20, 2026 over Sec. 2.3, 2.4, 2.5 Quiz2 taken by September 27, 2026 over Sec. 2.6 – 2.7 Test 1: taken by October 4, 2026 over ch. 2
Unit 2	Week 7: Sec. 3.1 Quadratic functions and their Graphs. 3.2 Polynomial Functions and their Graphs Week 8: Sec. 3.3 Division of polynomials; Remainder and Factor Theorem. 3.4: Real zeros of Polynomials, Solutions of equations. Week 9: Sec. 3.5 Fundamental theorem of Algebra. 3.6 Rational functions. Week 10: Sec. 3.7 Quadratic, Polynomial, Rational Inequalities Quiz3 taken by October 11, 2026 over sec. 3.1 – 3.2 Quiz4 taken by October 18, 2026 over sec. 3.3 – 3.4 Quiz5 taken by October 25, 2026 over sec. 3.5 – 3.6 Quiz5 taken by November 1, 2026 over sec. 3.7 Test 2: taken by November 8, 2026 over ch. 3
Unit 3	Week 11: 4.1: Inverse Functions Week 12: 4.2: Exponential Functions, 4.3: Logarithmic Functions Week 13: 4.4: Properties of Logarithms, 4.5: Exponential and Logarithmic Equations Week 14: 4.6: Exponential, Logistic, and Logarithmic models, 5.1: System of Linear Equation Linear in Two Variables Quiz6 taken by November 15, 2026 over sec. 4.2 – 4.3 Quiz7 taken by November 22, 2026 over sec. 4.4 – 4.5 Quiz8 taken by November 15, 2026 over sec. 4.6 – 4.7 Test 3: taken by December 6, 2026 over Ch. 4 Comprehensive final exam taken by December 9, 2026

Homework assignments:

HW R.4	over sec. R.4	Due 8/30/2026
HW R.5	over sec. R.5	Due 8/30/2026
HW R.6	over sec. R.6	Due 8/30/2026
HW 1.1	over sec. 1.1	Due 9/06/2026
HW#4	over sec. 1.2	Due 9/06/2026
HW#5	over sec. 1.3	Due 9/06/2026
HW#6	over sec. 1.4	Due 9/09/2026
HW#7	over sec. 1.5	Due 9/09/2026
HW#8	over sec. 2.1	Due 9/09/2026
HW#9	over sec. 2.2	Due 9/13/2026
HW#10	over sec. 2.3	Due 9/13/2026
HW#11	over sec. 2.4	Due 9/20/2026
HW#12	over sec. 2.5	Due 9/20/2026
HW#13	over sec. 2.6	Due 9/27/2026
HW#14	over sec. 2.7	Due 9/27/2026
HW#15	over sec. 2.8	Due 10/04/2026
HW#16	over sec. 3.1	Due 10/11/2026
HW#17	over sec. 3.2	Due 10/11/2026
HW#18	over sec. 3.3	Due 10/18/2026
HW#19	over sec. 3.4	Due 10/18/2026
HW#20	over sec. 3.5	Due 10/25/2026
HW#21	over sec. 3.6	Due 10/25/2026
HW#22	over sec. 3.7	Due 11/01/2026

HW 4.1	over sec. 4.1	Due 11/08/2026
HW 4.2	over sec. 4.2	Due 11/15/2026
HW 4.3	over sec. 4.3	Due 11/15/2026
HW 4.4	over sec. 4.4	Due 11/22/2026
HW 4.5	over sec. 4.5	Due 11/22/2026
HW 4.6	over sec. 4.6	Due 11/29/2026
HW 5.1	over sec. 5.1	Due 11/29/2026