



Math 126E/26B

Corequisite Precalculus I

Course Syllabus

Welcome to MATH 126E and MATH 26B! This is an exciting time in your life, and I am looking forward to working with you as you succeed in college. You will also get the chance to apply what you have learned in this class to tangible, real-world examples. This is an intense class, and the more you work on it, the better you will get. Be open to reviewing old areas and exploring new areas of math and mathematical thinking and to learning something new about the applications of mathematics in the world around you.

This class has mandatory online homework and a group administered common departmental final exam.

CLASS INFORMATION:

Semester and Year: Fall 2026
Course Number: Math 126E
Course Section: 1022
Lecture Times: 1000-1115 MW
1000-1050 TR
Lecture Location: WRI-151

INSTRUCTOR INFORMATION:

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COURSE DESCRIPTION:

Topics include fundamentals of algebra, functions and graphs, polynomial, rational, exponential, and logarithmic functions, and systems of linear equations.

Note: This is a 5-credit course. Only 3 of 5 credits are counted for MATH 126 and toward graduation; the two corequisite credits are not counted toward the total needed for graduation. Duplicate credits cannot be earned in any two of Math 124/126/128.

COREQUISITES INCLUDE:

Polynomial and rational expressions, linear equations, linear absolute value inequalities and applications, exponents and radicals, quadratic equations, relations and their graphs, system of equations

PREREQUISITES for the COURSE:

Three years of high school mathematics, including one year of algebra.

COURSE MATERIALS:

Required Text: *Precalculus* (custom 8th edition*) by Stewart; Cengage.

Required Account: WebAssign (<http://www.webassign.net/>) Your enrollment in the course is linked through WebCampus, and will be available by the first day of class.

Suggested Calculator: A non-programmable, non-graphing scientific calculator is recommended (calculator with trig functions, exponentials and logs).

SPECIAL NOTE:

During full semesters (fall and spring), students enrolled in Math 095 through Math 182 are required to view a mandatory presentation regarding the online evaluations, tutor clinic and other tutoring options offered. Your instructor will provide you with specific details.

EVALUATION AND GRADE ASSIGNMENT for MATH 126E MATERIAL:

Weight	Item
10%	Online Homework (course key: unlv 5199 4501)
30%	Cumulative Final Exam*
30%	Test One, Test Two, Test Three
24%	Textbook Homework, Classwork, Other Assignments
6%	Portfolio

* The Final Exam for *all* Math 126 sections will be a 2-hour comprehensive exam administered on **05 Dec 2026 at 1030**. The auditorium location will be announced towards the end of the term.

Absolutely no make-ups or re-scheduling allowed. No formula cards permitted during the final exam, a non-programmable, non-graphing scientific calculator is allowed for the final exam.

Letter grades will be assigned according to the following scale: A 93-100, A- 90-92.9, B+ 87-89.9, B 83-86.9, B- 80-82.9, C+ 77-79.9, C 73-76.9, C- 70-72.9, D+ 67-69.9, D 63-66.9, D- 60-62.9, F below 60.

Extra credit will *not* be permitted on final grades, or the final examination.

TOPICAL OUTLINE:

Chapter 1, Sections 1-8, 10
Chapter 2, Sections 1-7,
Chapter 3, Sections 1-7
Chapter 4, Sections 1-6
Chapter 9, Sections 1-9
Chapter 11, Section 5

LEARNING OUTCOMES:

In addition to the listed outcomes, we expect students to have mastered or continue to hone their expertise in algebraic manipulations. All assessment questions should be considered tests of the

appropriate use of these (and prerequisite) algebraic skills. The included outcomes below are only a subset of the objectives covered in the course, see “exam hints” link below for a sample of the material covered on the final exam.

- Find the equation of a line given its graph
- Identify domain restrictions of square root and rational functions
- Find the equation of a line given data (either two points, slope and one point, a point and a parallel line, a point and a perpendicular line, etc.)
- Evaluate and graph a piecewise function
- Combine functions (multiplication, division, addition and subtraction and composition)
- Identify whether a given function is odd, even or neither
- Operate on complex numbers (add, subtract, multiply, divide, find the conjugate)
- Define and use the quadratic formula to find the roots of a quadratic equation
- Determine the characteristics of a quadratic function (axis of symmetry, roots, vertex, etc.)
- Solve non-linear inequalities
- Determine what happens to a given polynomial as the independent variable tends to positive and negative infinity
- Find an inverse function of another, given function and its domain and range
- Find the domain and range of a log function
- Solve exponential equations with different bases by utilizing logs
- Find the equation involving half life or doubling time given context of model
- Solve a system of two linear equations and two unknowns

COREQUISITE MATERIAL

- Identify, simplify and calculate using laws of exponents, order of operations
- Compute fluently with fractions, decimals, percentage, and integers
- Simplify and evaluate algebraic expressions
- Create and interpret graphs of various types, and identify the components of the Cartesian coordinate system
- Add, subtract, multiply and divide polynomials and rational expressions
- Factor polynomials
- Simplify and solve equations with radicals and rational exponents

COURSE SCHEDULE:

See Assignment Summary.

CLASS POLICIES:

ATTENDANCE:

Attendance is a mandatory component of all on-campus classes, and will be taken daily.

CALCULATOR/TECHNOLOGY:

Calculators are optional in this course. A sophisticated (EXPENSIVE) calculator provides no significant advantage over a good scientific calculator. In any case, we won't be spending time mastering their use. The primary focus of this course is to be able to think well. It is your personal responsibility to make sure your technology use in class is on-task.

HOMEWORK:

Homework will be assigned and graded using WebAssign. You will be able to enroll using WebCampus. Further information will be provided on the first day of class. Textbook homework

assignments are listed on my website, and will be evaluated by homework quiz on review days prior to exams. Other homework will be assigned, always with adequate time between assignment and due date.

MAKE-UP POLICY:

Late work is not generally accepted; if it is, expect a points penalty. Make-up exams may or may not be given at the discretion of the instructor.

TESTING:

Testing (Test One, Test Two, Test Three, and the Final Exam) for this course will be in-class, using paper and pencil, no books, no notes. Quizzes may be given at any time, with or without prior notice.

TUTORING:

Tutoring through the Department of Mathematical Sciences is available for this course – this includes a walk-in tutoring clinic held in CRC-231. For more information including location and hours please call (702) 895-3567 or email math@unlv.edu. Additional free tutoring is available from the Academic Success Center in the Lied Library.

OTHER INSTRUCTOR POLICIES:

- 1. Read the book.**
- 2. Do math every day.**
- 3. Practice to mastery.**

Bring your textbook to class every class period.

A positive attitude is expected in this course daily.

Have fun.

University Policies

Are available [here](#).

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