

Algebra 3 Syllabus Ratliff

Instructor Name: Ms. Donna M. Ratliff

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Course Description:

Prerequisite: Algebra II or Honors Algebra II

Grade of C or above in Algebra II or Honors Algebra II is recommended.

Content includes the review of topics from Algebra II and Geometry and introduces new topics such as linear relations and functions, systems of equations and inequalities, matrices, polynomial and rational functions, exponential and logarithmic functions, trigonometry, conics, sequences, and series. The course is for students who intend to continue their study of mathematics in college. Students may not enroll in Algebra III after receiving credit for Pre-Calculus. The DESMOS graphing calculator will not be used in this class. Instructions on how to use the TI-84 Graphing Calculator will be given in this class.

Textbook: Blitzer Algebra and Trigonometry (6th Edition) e-text

An outline of the weekly assignments will be in the Cavans platform, but all work will be done in the MyLab Math is our online platform through the textbook.

Students may access the online textbook through MyLab Math.

Course Topics:

Chapter 1: Equations and Inequalities

Chapter 2: Functions and Graphs

Chapter 3: Polynomial and Rational
Functions

Chapter 8: Systems of Equations and
Inequalities

Chapter 9: Matrices and Determinants

Chapter 4: Exponential and Logarithmic
Functions

Chapter 5: Trigonometric Functions

Chapter 6: Analytic Trigonometry

Chapter 7: Additional Topics in
Trigonometry

Chapter 10: Conic Sections and
Analytic Geometry

Chapter 11: Sequences and Series

Grading:

Measure of Progress (homework, classwork) 40%

Mastery of Content (quizzes, tests) 60%

Measure of Progress: Homework/classwork:

If a student is struggling with a problem in a homework/classwork assignment, MyLab Math will give hints on how to work out a problem as well as show the students how to solve the problem. Students will then be given an additional problem to solve on their own to receive credit. Homework/classwork assignments may be done multiple times to improve the grade but must be completed by the deadline.

Mastery of Content: Quizzes/tests:

Quizzes and tests will be given during class. Some assessments will be done without a calculator and on others, a TI-84 graphing calculator will be allowed. Students will be given the opportunity to do test corrections by completing similar questions to the ones that were missed. Deadlines will be given for these to be completed.

Graphing Calculator:

At times, students will be expected to do problems without the use of any calculator. When a calculator is allowed, students will receive instruction on how to use a TI-84+ graphing calculator. We will provide a TI-84+ graphing calculator, free of charge, for students to use all year, with a signed calculator rental form. In the event that the calculator is not returned in good working order at the end of the school year, the student is responsible for paying its actual replacement cost, approximately \$130.00. The DESMOS calculator will not be allowed.

Supplies:

School issued Chromebook and charger
Graphing Calculator (when allowed)
3-ring binder
Graph paper
Pencil

School Motto: What is LANCER PRIDE?

Be a Team Player
Be Responsible
Be Respectful

Extra Help:

I am usually available in the mornings, if you need help. I am also available in the afternoons, by appointment.