



Miss Gilman
Advanced Algebra A
Room: A206

Phone: (503) 673-7815 ext 4893
E-mail: gilmanj@wlwv.k12.or.us
Office Hours T, W 2:00-3:00pm
or by appointment

Course Description

In this course, students will build on their work with linear, quadratic and exponential functions. Students will also extend their understanding of functions to include polynomial, rational and radical functions. Technology will be utilized throughout the course to facilitate learning.

Major Units

Solving Equations and Inequalities	Trigonometric Functions
Linear Functions and Systems	Trigonometric Equations and Identities
Quadratic Functions and Equations	Conic Sections
Polynomial Functions and Equations	Matrices
Rational Functions	Data Analysis and Statistics
Rational Exponents and Radical Functions	Probability
Exponential and Logarithmic Functions	

Learning Goals and objectives

Upon completion of this course, students will be able to:

- Interpret the structure of expressions
- Write expressions in equivalent forms to solve problems
- Perform arithmetic operations on polynomials
- Understand the relationship between zeros and factors of polynomials
- Create equations that describe numbers or relationships
- Solve equations and inequalities with more than one variable.
- Solve systems of equations
- Represent and solve equations and inequalities graphically
- Understand the concept of a function and use functions notation
- Extend the properties of exponents to rational exponents
- Understand and apply the fundamental counting principal, combinations, permutations and probability
- Use probability to evaluate outcomes of decisions
- Understand that polynomials form a system closed under the operations of addition, subtraction and multiplication
- Rewrite simple rational expressions in various forms using inspection, synthetic division or long division
- Apply rules of exponents and logarithms to convert expressions or solve equations

Standards of Mathematical Practice

The student will:

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make sense of structure.
- Look for and express regularity in repeated reasoning.

All math courses are designed to meet the requirements of the WLWV Mathematics Curriculum and the Common Core State Standards.

Required Materials:

TI-83 or TI-84 Graphing Calculator

One 3-ring Binder

Spiral Notebook for Adv Algebra ONLY
(continued from Semester 1)

Notebook Paper and Graph Paper

Pencils

At least ONE red, green or purple pen

Highlighters

Classroom Rules and Expectations:

All guidelines and rules of West Linn High School will be followed.

The Student is expected to:

- **Be On Time.** *Respect our time together and use it wisely.*
- **Come to class prepared.** *Bring your supplies to class each day.*
- **Respect the speaker.** *This includes your classmates, guests, and Miss Gilman.*
- **Act Responsibly.** *Both inside and outside of the classroom.*
- **Help Others Learn.** *Give sincere assistance, and do your best to not distract others.*

***Put your phones away during class meetings for CLD. We will utilize various forms of technology throughout the course, just not social media during class time.**

Consequences of not meeting classroom expectations:

- I. Discuss the behavior with the student (verbal warning).
- II. Conference with the student (group change/*detention*/ incident report/ parent contact)
- III. Conference with the student (behavioral plan/ parent contact/ parent conference)
- IV. Referral to administration (Miss Gilman will issue referrals for first-time incidents that place students or community members in danger.)

Homework/Classwork Expectations:

Each student will be expected to complete all assignments. Each assignment has been specifically designed to increase the opportunity for each student to be successful in this course. Student work is expected to be neat and organized. Students must complete all assignments in pencil. Homework will be submitted through Google Classroom. Students will take daily notes and will submit copies of their Spiral Notebooks weekly for Classwork points.

Grading Policy:

Students will be offered opportunities to demonstrate their understanding of the content each week. Students are given tests/quizzes on each chapter as well as one cumulative semester final each semester. Cheating will not be tolerated. Students will complete their own work, no test or quiz is worth compromising our character.

Graded student tests and quizzes are not to be shared with other students.

Grading Cutoffs:

A: 90 and above

B: 80 to 89.9

C: 70 to 79.9

D: 60 to 69.9

F: 59.9 and below

Grades will not be rounded up

Homework must be submitted to Google Classroom on time for full credit.

No extra credit.

Grading Breakdown:

Tests 45%

Quizzes/Classwork 20%

Final Exam 20%

Homework 15%

Policy for Students with D's or F's:

Students who are earning a grade of a D or an F at any time throughout the semester, will be expected to attend office hours with Miss Gilman for extra assistance before school at least two times per week or until work has been completed/quizzes have been retaken to bring up his/her grade.

Makeup Policy and Long Term Project Policy:

- Make-ups will only be permitted for excused absences, and must be arranged the first day back.
- You have one day per day missed to make up assignments for excused absences to receive full credit.
- Make up Quizzes must be taken the day you return to class unless prior arrangements have been established.
- Makeup tests must be taken within one week from the original test date, please arrange a time and place ASAP.

- Long Term Projects are due on the published due date, no exceptions.

Excused and Un-excused Absences:

Parents must contact the WLHS attendance office to excuse an absence.

Un-excused absences will result in loss of points for the day and assignments cannot be made up for credit.

Extra Assistance Information:

Students: If you need extra help, please make an appointment with Miss Gilman either before school or after school as soon as possible.

Parents/Guardians: If you have any questions or concerns, please feel free to contact me anytime, preferably by email. Thank you for your time and support.

*Content contained in this syllabus is subject to changes. Content is specific to CDL environment