



## Mrs. Lamotte

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### ALGEBRA 2B (Parts 3 & 4) SYLLABUS

#### Materials Required:

- TI-83+/84+ or compatible graphing calculator
- Pencils, eraser(s), 3-ring binder to organize paperwork

TEXTBOOK: Glencoe, Algebra 2 (available online via Google Classroom. If you want a textbook outside of class, please ask at the book room.)

COURSE DESCRIPTION: Algebra 2 is designed for all students preparing to enter the work force or continue study at the post-secondary level. Students will further develop algebraic skills and integrate their more recent study of geometry.

#### COURSE TOPICS:

##### **Ch. 4: Matrices (Sections 4.1-4.5, 4.7, 4.8)**

Students explore matrices as a notation in which they have to attend to the position of a number as well as to its magnitude. They learn when matrices can be added, subtracted, or multiplied, and learn how to find the sums, differences, products, and scalar products of matrices. They use matrices to represent transformations and to represent and solve systems of equations.

##### **Ch. 11: Sequences and Series (Sections 11.1, 11.2, 11.7)**

Students will study arithmetic sequences and series, as well as the binomial theorem and its applications to algebra and statistics.

##### **Ch. 13: Trigonometry (Triangles)**

Students will explore trigonometric functions for right triangles and for points on the unit circle. Students use the trig functions to explore amplitude and period.

##### **Ch 13-14: Trigonometry (Unit Circle)**

Students will explore trigonometric functions for right triangles and for points on the unit circle. Students use the trig functions to explore amplitude and period.

##### **Chapter 9: Rational Expressions and Equations (Sections 9.1 – 9.6)**

Students extend basic arithmetic operations to rational expressions and extend solving equations to rational equations and inequalities. They graph rational functions and identify discontinuities in the graphs. They investigate equations that represent direct, inverse, and joint variation. They look at graphs of various shapes, including continuous curves, discontinuous curves, and lines, and associate each graph with a specific kind of function.

##### **Ch. 12: Statistics and Measurement of Data**

Students are introduced to basic statistical treatment of data, including bias, sampling, measures of center, measures of spread and the creation and use of various graphs and charts.

## ONLINE RESOURCES

Textbook: Chapters of your textbook will be posted on Classroom as .pdf files.

Remind: Please join at [remind.com/join/8c6b9d](https://remind.com/join/8c6b9d)

Classroom: 1st hour: 3 t g m v 5 n  
2nd hour: m t u o o 2  
4th hour: y k c l 5 b q

## TEACHING FORMAT

Please come to class on time. Class will begin promptly with a warm-up activity. Once you have completed your warm-up, we will generally go over questions. The new lesson(s) will be covered through a variety of learning strategies—possibly including reading, small and large group discussion, cooperative learning, investigative activities, flipped classroom, videos, lecture, labs, etc.

## GRADING PROTOCOLS

### Tests and Assessments (70%)

There will be frequent testing and retesting. If you are absent on the day of the test, be prepared to take it on the day you return.

Retest policy: See WOHS Math Department Guidelines.

### Quizzes and Projects (25%)

There will be frequent quizzes. Some will be independent; others will be opportunities to use notes and partners on quizzes. If you are absent on the day of the quiz, be prepared to take it on the day you return.

Projects will be given periodically, and you will be given adequate notice.

Daily warm-ups and tickets out the door will be graded on a daily basis and recorded on a weekly basis; they may not be “made up,” and your two lowest weekly scores will be dropped every semester.

### Homework (5%)

Homework will be spot-checked at any time. Work is due immediately following assignment, sometimes the same day when work time is allotted. All missing and incomplete assignments must be completed by test day in order to qualify for re-takes, and late assignments will be given only half credit.

### Grade Reports:

Grades can be checked at your pleasure on Infinite Campus.

### Expectations:

1. Be on time to class. Be nice. Be pleasant. Be courteous.
2. Come to class prepared with your own calculator, pencil, binder, and homework.
3. Respect other students, the teacher, and the classroom.
4. Participate in class discussions/activities.
5. Please refrain from eating or drinking in the classroom. (Only water is allowed).
6. Bathroom passes at teacher discretion; please do not ask to leave during direct instruction.