

Algebra II

Course Description

The goal of Algebra II is to build upon the concepts taught in Algebra I and Geometry while adding new concepts to the students' repertoire of mathematics. In Algebra I, students studied the concept of functions in various forms such as linear, quadratic, polynomial, and exponential. Algebra II continues the study of exponential and logarithmic functions and further enlarges the catalog of function families to include rational and trigonometric functions. In addition to extending the algebra strand, Algebra II extends the numeric and logarithmic ideas of accuracy, error, sequences, and iteration. The topic of conic sections fuses algebra with geometry. Students will also extend their knowledge of univariate statistical applications. It is also the goal of this model to help students see the connections in the mathematics that they have already learned. For example, students will not only gain an in-depth understanding of circular trigonometry, but will also understand its connections to triangular trigonometry.

Course Objectives

By the end of this course, WMAA students will have experience in the following topics:

- Foundations for Functions
- Quadratic Functions
- Polynomial Functions
- Exponential and Logarithmic Functions
- Rational and Radical Functions
- Properties and Attributes of Functions
- Probability
- Data Analysis and Statistics
- Sequences and Series
- Trigonometric Functions
- Trigonometric Graphs and Identities

Course Textbook

Algebra 2 will be using the following textbook:

Holt and McDougal: Algebra 2 WMAA will only have a classroom set of this textbook.

Necessary Materials

1. A folder or three-ring binder to hold any notes, handouts or assignments.
2. Pen or pencil

Grades

A percentage system is used to calculate your grade for Algebra II. Listed below are the different ways you will be assessed throughout each semester.

Chapter Tests – Tests will be given at the end of most chapters, and may include vocabulary, short answer, multiple choice, and algebraic reasoning.

Quizzes – Quizzes will be given periodically throughout the semester, and may include vocabulary, short answer, multiple choice, and algebraic reasoning.

Projects – At least one project will be assigned during the year. Students will be given ample advance warning, clear and concise directions and time both in and out of classtime to work.

Writings – At least one writing assignment will be assigned during the year. Students will be given ample advance warning, clear and concise directions and time both in and out of classtime to work.

Homework Assignments – Homework will be assigned when a sufficient amount of material has been covered. Homework is a necessary step in the process to mastery and success is not guaranteed without quality, independent practice on the students’ part. Homework will be collected randomly for a grade. It is expected students complete homework when it is assigned.

Chapter tests, papers, projects will comprise 75% of your coursework grade. Quizzes and homework assignments will comprise the other 25% of your coursework grade. Both of those grades will then be combined and will count for 80% of your semester grade. The semester exam will count for the final 20% of your semester grade. Please contact Mr. Brassler if you have any questions regarding this structure. The final semester grade will be used in determining a student’s grade point average (GPA).

West Michigan Aviation Academy Grading Scale		
Letter Grade	Percentage	Grade Point
A	95-100%	4.0
A-	90-94%	3.7
B+	87-89%	3.3
B	83-86%	3.0
B-	80-82%	2.7
C+	77-79%	2.3
C	73-76%	2.0
C-	70-72%	1.7
F	0-69%	0.0
INC	Incomplete Coursework	N/A

Coursework

Communication will occur frequently between teachers, students, and their families to determine an action plan for missing work.

- *If an assessment is not turned in on time, a zero will be used as a placeholder until the assessment is submitted or the unit has ended. This zero will be accompanied in the grade book with a “missing” marker so that the reason for the zero is evident.*
- Late homework may be completed for up to 80% of the original credit.

After a unit has been completed, no late work will be accepted for that unit.

Policies and Expectations

Absence: When absent, it is the student’s responsibility to get all missed work and set up a time to meet with Mrs. Walker if necessary in order to clear up any confusion. For each day of class missed, students are allowed one day to make up the missed work. It is encouraged that they check the course website to see what was done in class that day so that they are aware of what will need to be done to catch up.

Tardiness: All students are expected to be in their assigned classroom before the final bell sounds. Any student that comes to class after the bell will be marked tardy for that class period. Habitual tardiness will be dealt with between the teacher, the student, and his or her family. If the problem persists, further conversations will occur between Mr. Fisher, the student, and his or her family to determine a plan of action to correct the behavior.

Academic Dishonesty: Academic dishonesty including, but not limited to, cheating and plagiarism will result in the student receiving no credit for the assessment. Restoration will be at teacher discretion.

Character

Additionally, students will be evaluated on their character choices for each course. The character evaluation will reflect student mastery of WMAA’s critical character expectations: be respectful, be responsible and do your personal best.

- 3 – Exceeding Expectations
- 2 – Meeting Expectations
- 1 – Currently Not Meeting Expectations

Gradebook – Available Online

Powerschool: <http://ps.westmichiganaviation.org/public/>

Welcome to Algebra II

General Daily Routine:

1. Spend at most 5 minutes answering questions over prior days lesson.
2. Spend at most 10 minutes completing a homework check.
3. Listen, take notes, and ask questions during the new lesson.
4. Remaining time will be used for homework and one on one questions.

Note: There may be a day we do an activity, but it will be announced in advanced.

How to know what we will be doing in class:

- I will have the weekly schedule on the board.
- My class website has a calendar that states what lesson/homework assignment was given for each day.

I'll Count On You To:

1. Be in the room when the bell rings or you will be marked tardy.
2. Be ready with questions on prior days lesson.
3. The responsibility of learning the material is yours...be prepared...ask questions...take notes...
4. Attendance is critical. When you miss a class it is YOUR responsibility to obtain the assignments and make up the reading and work missed.
5. **Be POSITIVE!! I know this is really difficult material, but if you keep a positive attitude it will be easier to learn.**

Homework Policy:

- You will be given the opportunity to practice the content learned in class through worksheets.
- I will grade you on your understanding of the material through homework checks at the beginning of every hour.
- They will be worth 3-5 points and you will be given 5-10 minutes to complete it.

Quiz/Test Policy:

- There will only be **RETAKES ON TESTS**:
 - The retake must be done outside of class
 - You will be required to complete an extra practice assignment.
 - The Retake: you must redo the problems you lost points on from the original test
 - The score from the retake will replace your original score.
- You will only be given **2 Retakes** for the semester.

Extra Help:

- My classroom (Room 201) before or after school by appointment or email.
- How to schedule an appointment with Mrs. Walker:
 - Go to my website: mrswalkerwmaa.weebly.com
 - Click on the button "Make Appointment with Mrs. Walker"
 - Click on the time/day that works for you

Count on me to:

- Put forth my best effort to provide you with instruction that allows you to learn and master the objective.
- Treat ALL students with respect.
- Have a positive attitude.
- Do my best to teach all learners.

Classroom website:

- I will post assignments, blank copies of notes, video's of the lessons, and any extra resources to the website. www.mrswalkerwmaa.weebly.com

There are several ways to contact me if you need help or to let me know of any concerns.

My email is ewalker@westmichiganaviation.org

My school phone is 616.446.8886 ext. 130

My website is www.mrswalkerwmaa.weebly.com

Algebra 2 Parent Information (for parents to keep)

My name is Elizabeth Walker and I will be your student's teacher in Algebra 2 this year. This is my fifth-year teaching at West Michigan Aviation Academy. I earned my undergraduate degree from Central Michigan University in December of 2014. I grew up on the east side of the state, but now live with my husband, two sons, and two dogs in Wyoming. Working with students and teaching math is my passion. I am very excited to get to know and work with your student this year!

There are a couple of ways to contact me if you need help or to let me know of any concerns.

My school phone is 616.446.8886 ext.130. My email is ewalker@westmichiganaviation.org
You can also view any information your student accesses via my website at www.mrswalkerwmaa.weebly.com

Options for Help:

During school hours: Questions/Homework time in class. (I try to give students time everyday.)

Before/After school hours:

- I arrive by 7:30am and I leave at 4:00pm every day.
- If your student wishes to meet with me, I ask they either make an appointment or email me.
 - Email: ewalker@westmichiganaviation.org
 - Making an Appointment:
 - Go to my website: mrswalkerwmaa.weebly.com
 - Click on "Make Appointment with Mrs. Walker" button
 - Click on the day/time that works for your student in my google calendar.
- Students can contact me with questions via e-mail and I will get back to them as soon as I can. I encourage students to contact each other or stop in to see me with questions when they have them so that we can obtain a complete understanding of the material prior to moving on to the new material.

To be completed by parent/guardian: (return with student by Monday)

Student Name: _____

Parent/Guardian Name: _____

Mrs. Elizabeth Walker,

I have read the student syllabus for Algebra 2

_____ I have no questions at this time about the class.

_____ I have questions at this time about the class.
Please contact me about the following:

I have read through the parent information sheet.

_____ I have no questions at this time

_____ I have questions at this time.
Please contact me about the following:

Parent/Guardian signature _____

Email address _____

Phone number _____

Best time(s) for contact: _____