

Greater Miami Adventist Academy

Algebra 2 Syllabus 2017-2018

Course Information:

Course Title:	Algebra 2
Credit Hours:	Two Semester 1.0 unit credit
Instructor:	Mrs. Tamarha Lubin
Classroom:	Room 207
E-mail Address:	tamarha.lubin@gma.edu
Phone Number:	954-562-5062
E-Book:	<i>Intermediate Algebra</i> 2011, Hawkes Publishing Author: D. Franklin Wright Graphing Calculator is required

Course Description:

This course is designed to build on the concepts learned in Algebra I by continuing to enable students the formal structures of algebra. This will be accomplished by grounding students in familiar contexts and real-world applications of algebraic thinking. Seeing the importance of algebra in one's life will make studying it more meaningful and enjoyable. The effective use of scientific and graphing calculator will be encouraged. Problem solving will be an integral part of this course with the aim of developing critical thinking skills in each student.

Course Objectives:

The students will be able to:

- Identify properties and use operations with real numbers.[AII.2]
- Simplify and evaluate algebraic expressions. [AII.4]
- Solve and use linear equations to solve real-life problems.[AII.1]
- Solve, graph, and evaluate absolute value equations and inequalities.
- Find the slopes and equations of lines including parallel and perpendicular lines. Use slope to solve real-life problems [AII.3]
- Solve linear equations and inequalities with one and two-variable(s).[AII.3]
- Graph in the coordinate plane (linear and absolute). [AII.4]
- Solve systems of linear equations and inequalities by varying methods.
- Graph quadratic functions and solve quadratic equations.
- Add, subtract, multiply, divide, graph and factor polynomial functions.
- Factor algebraic expressions using varied methods. [AII.7]
- Evaluate roots of real numbers using radical and exponential notation.
- Graph exponential growth and decay functions; and logarithmic functions. [AII.5]
- Solve exponential and logarithmic equations. [AII.5]
- Graph rational expressions and solve equations that contain rational expressions.
- Write equations and draw graphs of conic sections.
- Solve quadratic systems. [AII.6]

Course Topics & Schedule:

August	Equations, Inequalities, and Linear Equations
September	Functions, System of Linear Equations and Inequalities
October	Linear Equations and Matrices
November	Quadratic Functions and Factoring
December	Polynomials and their Functions
January	Rational Exponents and Radical Functions
February	Exponential and Logarithmic Functions and Rational Function
March	Quadratic Relations and Conic Sections
April	Data Analysis and Statistics
May	Sequences and Series

Grading Scale per Semester:

	Semester
Tests	60%
Quizzes	20%
Classwork/Homework	20%

Grades will be posted in RenWeb regularly. Parents and students are able to login to RenWeb to view grades and track progress.

Attendance and Lateness:

All students are expected to attend class in compliance with the GMAA Attendance Policy. (See *Student Handbook*). No assignments will be accepted past the due date. **Tests or Quizzes missed due to unexcused absences will not be accepted.**

Extra Credit Work:

Complete all assignments and projects, prepare well for the tests and quizzes, follow all the suggestions for success and **no extra credit** will be necessary.

Classroom Behavior:

Be in your seat with materials out and ready to work before the bell rings. Bring all the required materials to class daily. Follow all directions quickly. Raise your hand and wait to be called upon before speaking. The use of chewing gum is **not** permitted to be consumed in the classroom. Cell phones are not to be used during instructional time unless otherwise instructed. (*See Handbook*)

Academic Dishonesty:

Cheating includes any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means. Penalties for cheating and plagiarism will be evaluated as F for the assignment.

Suggestions for Success:

Pay attention in class, be on time, copy everything from the board, underline your textbook, do

not miss class, follow the instructions, study, turn in all assignments on time. Do not be afraid to ask questions, come and see the teacher when necessary, always hand in your very best work.

Classroom Supplies:

1. Casio FX-9860GII Graphing Calculator
2. Composition Book (100 sheet)
3. Graph Paper
4. Notebook Paper
5. #2 Pencils
6. Red Pen
7. Ruler

The teacher reserves the right to make changes to this course outline as deemed necessary.

*Please fill out the Acknowledgment of Receipt of Syllabus and return it to Mrs. Lubin. Students will receive a grade for turning in signed forms.