

# ALGEBRA 2 COURSE SYLLABUS

**Teacher:** Mrs. Elizabeth Bradford      *ebradford@vianney.com*

**Description:** In order to provide an integral, quality education, this course is designed to foster students' deeper understanding of Algebra. Students will learn how to reason deductively in increasingly complex situations. This course requires that students apply real-life situations and translate them into mathematical models. In this course students will learn the tools needed to solve increasingly complex equations and graph lines and parabolas.

**Course Objectives:** In this course, students will

1. evaluate and simplify mathematical expressions using properties of real numbers, polynomials, rational exponents, and radical and rational expressions
2. solve linear, quadratic, polynomial, and rational equations and linear inequalities
3. model real life phenomena as mathematical models
4. solve absolute value equations and inequalities
5. graph linear, quadratic, and polynomial equations and linear inequalities
6. formulate the equations of linear and quadratic graphs
7. solve systems of linear equations and inequalities with two variables
8. factor quadratic and polynomial expressions and equations
9. evaluate properties of exponents over rational exponents
10. solve exponential, radical, and logarithmic equations
11. implement the distance and midpoint formulas

\* Objectives are subjective to change

## **Classroom Procedures**

### **Materials:**

Everyday students are expected to have:

- 1) A 3-Ring binder with dividers – Students are expected to keep all handouts, notes, and returned tests and quizzes organized in their binders.
- 2) Paper and a writing utensil (No red ink is allowed in class)
- 3) A TI-83 or TI-84 graphing calculator
- 4) Textbook – McDougal Littell Algebra 2
- 5) Red ink is not allowed in this class

### **Grading Procedures:**

Students' final grades will be determined by quizzes, tests, projects, and a cumulative final exam. Students will be allowed to redo tests (not quizzes) on a case by case basis. These requests must be initiated by the student. There will be a cumulative final at the end of the semester.

### **Grading Breakdown**

Quizzes	15%
Tests	50%
Projects	20%
Final	15%

### **Homework Policy:**

Homework will not directly be a part of the calculated grade. Suggested exercises will be assigned on nearly a daily basis and it is the responsibility/discretion of the student to take advantage of

this practice. Complete solutions will be available on Mrs. Bradford's website at <http://mrsbradfordmath.weebly.com>. Verifying accuracy of the work is the responsibility of the student. Every class period will include a question and answer session for students to get work clarified and /or corrected by Mrs. Bradford. Daily assignments should be an opportunity to learn and practice processes and concepts without fear of being incorrect. It cannot be stressed enough how important it is for the students to be proactive in daily practice and verifying the accuracy of work.

### **Test Retakes**

In order for a student be eligible for a chapter test retake, he must complete the assigned chapter review prior to the original chapter test. Test retakes will be available for chapter tests, not quizzes. Eligible students who desire an opportunity to retake a test must show they have adequately prepared for a retake by turning in test corrections on loose leaf. Only one retake may be scheduled per day and only one retake will be allowed per chapter. A retake grade will automatically replace the original test grade, whether it is better or worse than the original grade. Please make sure you are thoroughly prepared before requesting a retake. Please request your retake at least two days in advance of the day you would like to take it. A retake must be completed in one sitting.

## **Classroom Routines**

All students will be expected to act appropriately at all times: Every class period will begin with prayer. Students will always come quietly to class on time, prepared and ready to work. Students should work quietly on the assigned board work. Students are asked to listen to each other and Mrs. Bradford, ask questions, show ALL work on tests, quizzes, and assignments, and work hard until dismissed. Red ink is not allowed in this class.

### **Cell Phones and other Electronics in Class:**

**This is your warning on cell phone use:** There is a no tolerance policy for cell phone use during class. A graphing calculator is required for this class; a cell phone is not a substitute for a graphing calculator. If a cell phone is found in class, or at any time during the school day, it will be confiscated until the end of the day.

Other electronics will not be allowed in class. This includes but is not limited to: MP3 players, radios, cameras, and handheld video games.

### **Going to the Restroom:**

Class time is valuable, and it is preferable that students use the restroom before or after class. However, special circumstances do arise, and students can use the restroom in these situations. Please be respectful of this privilege – it is not a right. If a student violates this restroom privilege, he will not be allowed to use the restroom for the remainder of the year. Violating this privilege includes going somewhere other than the restroom, being noisy in the hallway, habitually needing to go to the bathroom, etc.

### **Encore:**

Encore is part of students' schedule and is instructional time. Periodically, a student will be assigned to meet with Mrs. Bradford during Encore to work on class material if he needs to get help or make up work. Students will be will notified in advance. Also, if a student wastes class time, he may be asked to make up that time during Encore in Mrs. Bradford's room.

**Class Dismissal:**

Class is dismissed by Mrs. Bradford, **not** the clock. The class will be dismissed only if Mrs. Bradford has stopped speaking, and **all** students are in their seats. It is disrespectful to pack up during class or line up at the door waiting to be dismissed. If students do this, everyone will be held after class.

**Discipline:**

Consequences are used for any disruptive or disrespectful behavior in class. Consequences include, but are not limited to verbal warnings, personal conferences, parent contact, detentions, and/or administrative conferences. Mrs. Bradford will choose the appropriate consequences as she sees fit. She reserves the right to skip consequences for major offences or repeat offenders and to make the punishment fit the crime. For example, if a student is drawing on one of the desks, that student will get to come after school and clean all of the desks in the classroom.

**Contacting Mrs. Bradford**

- Office hours are held in room 208 during Encore.
- By email at [ebradford@vianney.com](mailto:ebradford@vianney.com)
- By phone at St. John Vianney High School 314-965-4853 Ext. 734

I look forward to getting to know you and helping you learn as much as possible this semester.

Please detach this paper, and turn in as soon as possible...for your first QUIZ GRADE!

I have read this document and understand the policies and procedures of Mrs. Bradford's class. I am also aware that it is my right to request a meeting at any time during the year to discuss the enforcement of these rules and policies or any other issues related to class.

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Student Name

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Student Signature and Date

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Parent/Guardian Name

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Parent/Guardian Signature and Date

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Parent/Guardian Daytime Phone #

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Parent/Guardian Evening Phone #

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Parent/Guardian Email Address

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Best time/place to be reached