

# Algebra II Enriched

Mrs. Bou

## Course Information Sheet

2017-2018

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**Teacher:** Mrs. Bou

**Room:** 213

**Email:** abou@westminsterknights.org

**Course Description:** Algebra II is an extension of the study of algebraic concepts. Topics covered include: properties of real numbers, linear relations and functions, systems of equations, irrational and imaginary numbers, quadratic equations, functions and relations, exponential functions and logarithms, complex numbers, trigonometry, polynomials, rational expressions, matrices, and analysis of functions.

This Enriched course will move at a faster pace and homework and assessments will include complex problems that emphasize the theory of mathematics involved. The trigonometry covered is intended to prepare students for the rigor of Calculus.

**Course Outline:** Below is a general schedule of this course.

- **First quarter:** (Roughly corresponding to textbook chapters 1-4)
  - Equations and Inequalities
  - Linear Functions and Relations
  - Systems of Equations & Inequalities
  - Introduction to Matrices
  - Enriched Explorations
- **Second quarter:** (Roughly corresponding to textbook chapters 5-8)
  - Quadratic Functions and Relations
  - Polynomials and Polynomial Functions
  - Inverses and Radical Functions and Relations
  - Exponential and Logarithmic Functions and Relations
  - Enriched Explorations
- **Third quarter:** (Roughly corresponding to textbook chapters 13-14)
  - Trigonometric Functions
  - Trigonometric Equations and Identities
  - Introduction to Spherical Trigonometry and Applications
  - Enriched Explorations
- **Fourth quarter:** (Roughly corresponding to textbook chapters 9-11)
  - Rational Functions and Relations
  - Conic Sections
  - Sequences and Series
  - Enriched Explorations

**Textbook:** *Algebra 2* Glencoe McGraw-Hill 2010

### 9 Weeks Grading

- Tests/Projects 60%
- Quizzes 20%
- Homework/Classwork/Group work 20%

**Tests** – In general, there will be three to four tests in a grading period. Success on tests comes from taking good notes, doing homework and studying. The test must be completed during the scheduled class time – **NO EXTRA TIME WILL BE GIVEN**. Tests will be kept in your folder in my classroom.

**Project** – Each student will complete a project, taken from the textbook (exceptions only made with teacher approval). This project will involve a written report, a verbal presentation, a well-explained math problem, a student-produced practice worksheet, and a teaching visualization.

**Quizzes** – There will be many quizzes in each grading period. These are designed to keep you current with the material and identify any misunderstandings prior to the tests. One quiz will be dropped at the end of the nine weeks. Quizzes will be kept in your folder in my classroom.

**Homework** – Homework is very important to your success in learning the concepts. Expect to have homework **EVERY NIGHT** (except on Fridays per school policy).

- Homework must be complete and on time. **Each assignment is worth 10 points. You will receive a zero if the assignment is not turned in on time.**
- You must **attempt** all problems in pencil. I must see the problem, work and answer. Show all steps.
- Homework will be corrected in class using a red pen. I will walk around and check your homework as you are checking your work. I expect you to check and correct your homework everyday. Some days I will collect (and grade) your homework to be sure it has been checked and corrected.

**Classwork/Group Work** – Some days in class will include an assignment or activity to help you understand and learn the material. These assignments typically count 15 points or less.

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**Absences:** ***YOU ARE RESPONSIBLE*** for getting the notes and making up any work. The policy in the student handbook will be followed for due dates and grading. If the test, quiz, project, or homework was assigned prior to the absence, **the student is responsible for that assignment upon returning to school. If a student misses a review day and new material is NOT covered then EXPECT TO TAKE THE QUIZ OR TEST.**

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**Extra Help:** If you need extra help in my class, please see me to schedule a time.

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### **Required Materials:**

- Textbook
  - 3 ring binder (1 ½ inch) with 2 dividers:  
“Notes/CW/GW”, “Homework”
  - File Folders – 2 (Put your name on the tab of each folder and turn in.)
  - Loose leaf paper, college ruled
  - Graph Paper or Graph Stickies
  - Pencils, Red Pens
  - TI-84 Plus Graphing Calculator
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## Expectations for Classroom Behavior:

1. BE RESPECTFUL

Always be respectful of your teacher and classmates.

Only one person speaks at a time. Please raise your hand and wait to be called.

2. BE PREPARED

Textbook and all required materials outlined above are needed in class each day. No student will be allowed to leave class for missing items. This policy includes forgetting homework.

3. BE ON TASK

Math is the only subject that may be worked on during class.

4. BE RESPONSIBLE

Be on time.

Put forth your best effort on all assignments.

Ask questions when you don't understand.

Study for quizzes and tests.

5. FOLLOW ALL rules outlined in the Westminster School at Oak Mountain's handbook.

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I have read, with my parent/student, and understand all the material covered in the course information sheet for Algebra I. Furthermore, I agree to do everything in my power to make Algebra I a successful experience.

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Student Name

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Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent Email address (please print clearly)

\_\_\_\_\_  
Daytime Phone Number

Best Contact Method, Email or Phone? \_\_\_\_\_

Additional Comments \_\_\_\_\_