CAFE Class Descriptions

Teacher: Aaron Bogan

Class Title: Algebra II

Age Range (circle): ~~PreK-K 1~~~~st~~~~-3~~~~rd~~ ~~4~~~~th~~~~-6~~~~th~~ ~~Jr. High (7~~~~th~~~~-8~~~~th~~~~) Lower HS (9/10)~~ Upper HS (11/12)

Curriculum Used: Math Without Borders Home Study Companion Algebra 2 / Trigonometry

<https://mathwithoutborders.com/algebra-2-trigonometry>

Books/materials to purchase (2 separate purchases), and approximate cost:

1. Paul A. Foerster’s *Algebra and Trigonometry: Functions and Applications*.

ISBN10: 0131657100 / ISBN13: 9780131657106 (used text should cost ~$25)

2. Math Without borders Home Study Companion Algebra 2 / Trigonometry video lessons and problem solving sessions <https://mathwithoutborders.com/shop/hsc-algebra-2-trigonometry>

($85 w/standard shipping)

Course Description:

Second year Algebra course covering Functions and Relations, Systems of Linear Equations and Inequalities, Quadratic Functions and Relations, Higher Degree Polynomials, Complex Numbers, Exponential and Logarithmic Functions, Rational Algebraic Functions, Irrational Algebraic Functions, Sequence and Series, Probability, Data Analysis, and an Introduction to Trigonometry. Depending on our pacing we may skip Data Analysis and/or scale down Trigonometry.

Students will typically cover 1 section from the text per weekday. For each section, the detailed lecture must be viewed, the text read, and the assigned problems completed. After completing the day’s assigned problems, parents will verify that students have checked their work using the step-by-step solutions provided with the home study companion. Any and all mistakes must be corrected by reviewing the related section(s) of the video lecture + text and then reworking the incorrect problem(s) properly.

Approximate time required outside of class for homework:

WEEKLY: Depending on the student’s grasp/retention of Algebra 1; between 5 and 10 hours

DAILY

10 to 15 minutes to watch the lesson video lecture

10 to 15 minutes to read through the explanations and examples in the textbook

30 to 60 minutes to work through assigned problems and make corrections/review as needed

Length of Course (circle): ~~One semester~~ Full Year

Are new students accepted second semester? No

Fee/semester: $160

Maximum class size: 20

Grade assigned? Yes: Letter (A,B,C,D,F) based on a typical 10 point scale

Number of high school credit hours earned if all requirements are met: 1 full year credit (Algebra 2)