

Boston Collegiate Charter School
Algebra II Honors
Syllabus 2011-2012

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Tutoring: Tuesday and Wednesday, ROOM 130
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Course Overview

Algebra II is designed as an extension of Algebra I and as a transition to Pre-Calculus. Throughout the year, we will strive to reinforce core Algebra II concepts and develop a broad understanding of how math works in real world applications. We will focus on learning how to think mathematically and communicate mathematical ideas clearly and precisely both verbally and in writing. We will work to become comfortable with the fact that learning math requires persistence and patience, and sometimes lacks immediate gratification. As always, students are expected to actively work, to be involved, to seek extra help when necessary, and to ask questions.

Time	Content	Khan Academy
August-September	functions, linear equations, linear regression models, system of equations, and linear programming	NA
October-November	quadratic equations; application of quadratics in physics, applied geometry, and business; introduction to conic sections	November 1, 2011 Khan Academy sections starting with Addition 1 through Exponents 2 are due (see handout or online)
December	linear, quadratic, and exponential models	
January-March	polynomial and rational expressions and functions	March 12, 2012 Khan Academy Section starting with Geometry 1 through Equations of Circles 2
April	radical expressions and functions	
May-June	statistics and probability with emphasis on decision-making	Awards for students with most badges and rewards on Khan Academy.

Logistics

Class Meeting Time: 3rd Period, Room 130

Text: Holliday's *Algebra 2*, Glencoe.

Required Material: TI-83 Graphing Calculator (or equivalent), Three-Ring binder with paper (notes!), and Pencils

Grading

Grades are calculated each quarter using the following weights:

Exams = 35%, Quizzes = 25%, Classwork = 20%, Homework = 20%.

(Classwork will include periodic checks concerning note-taking, on-task behavior when in groups, and written assignments)

Grade	Q1	Q2	Mid-term	Q3	Q4	Final
9	21.25%	21.25%	5%	21.25%	21.25%	10%