

Algebra II 2006

Upward Bound Jason Miller, Instructor

Course Objectives:

The purpose of this course is to prepare the students for any Algebra II course. This will include review topics discussed in Algebra I and introduction to key concepts in Algebra II.

Course Expectations:

It is expected that the students come to class prepared to take part in mature conversations about the topics being studied. This requires the students do all homework that is assigned.

Grading:

Notebook: 5%

Class Participation: 20%

Projects: 25%

Quizzes: 30%

Homework: 20%

Notebook:

Mathematics is a difficult subject made easier by organization. We can never hope to remember everything, so it is important that we have reference materials that can be accessed quickly and easily. During the summer we will be creating a notebook which may be used in this manner.

Classwork/Participation:

Participation is expected. This will consist of projects, exercises, and mathematical based conversations.

Quizzes:

Quizzes will occur quite frequently. You may plan on having a quiz at least once a week.

Projects:

We will be working on a couple of projects during the course of the summer. Participation on these projects is mandatory.

Homework:

Homework will be given on a daily basis. It is expected that the students complete each assignment. Collected homework will be graded based on neatness, completeness, and content.

Topics by Day:

June 26: Solving Equations and Inequalities

June 28: Functions vs Relationships

June 30: Inverse Functions

July 5: Solving Systems of Equations (Elimination)

July 7: Solving Systems of Equations (Substitution)

July 10: Monomials

July 12: Multiplying Polynomials

July 17: Quadratic Functions and their Graphs

July 19: Solving Quadratic Equations (Factoring)

July 21: Complex Numbers

July 24: Using the Quadratic Formula to Graph Quadratic Functions

July 26: Polynomial Functions

July 28: Long Division and Synthetic Division

July 31: Finding Zeros

August 1: Rational Functions

August 3: Wrap up