

Troy High School Course Profile

Course Title: Algebra Foundations 2

Course Prerequisites: Refer To Registration Presentation

Course Description:

Algebra Foundations II introduces the student to variables, algebraic expressions, equations, functions, inequalities, and their graphical representation. The student will develop the ability to explore and solve mathematical problems, think critically, work cooperatively with others, and communicate mathematical ideas clearly. This course, together with Algebra Foundations I, counts towards meeting the Algebra I graduation requirement. This year course is equivalent to second semester Algebra 1.

Students entering this course should already have a mastery of the following concepts and possess the following skills:

- All 7th grade math standards mastered and strong competency on 8th grade math standards
- Integers- add, subtract, multiply, divide
- One and Two step Equations & Inequalities
- Number line/Absolute Value/ Order of Operation/Exponent basics and ability to solve higher level problems incorporating the aforementioned topics
- Graphing a line in Slope-Intercept Form/Standard Form.
- Know how to find the slope given two points and a point and slope.
- Basic skills and understanding of Linear Graphing & Functions (symbols, inverse operation, knowing x as an unknown and no longer a multiplication symbol)

Workload Expectations for this course (list typical amount of homework, projects, presentations, papers, etc.):

- Homework usually will not exceed 30 minutes per night
- Review notes daily (10-15 minutes at home)
- Individual/Group class activities assigned occasionally
- Organization & self advocacy (when help is needed) expected
- A math binder for all of their notes, assignments, and classwork.