



Algebra 2 Syllabus

Teacher: Mr. S. Brown

Classroom #: 304

Email: SBrown1@waterbury.k12.ct.edu

Office Hours: After school by appointment only

Wilby High School Core Values and Beliefs:

The students, faculty, staff, and administration of Wilby High School will work cooperatively with families, members of the community, and the Board of Education to create a safe, welcoming, and academic environment which embraces, challenges, and nurtures the diverse talents, interests, and learning styles of all its students.

All students will leave Wilby High School with the self-respect, respect for others, knowledge, and 21st century skills necessary to become independent, intellectually curious, and self-fulfilled members of society.

Wilby High School's 21st Century Expectations for Student Learning:

Academic Expectations

Effective Reader

Effective Writer

Effective Problem Solver

Self-Directed Learner

Civic Expectation

Community Contributor

Social Expectations

Respectful Person

Collaborative and Cooperative Worker

Course Description from the Wilby H.S Program of Studies:

Prerequisite: Successful completion of Algebra 1 and Geometry

Algebra 2 reviews and expands on the concepts studied in Algebra 1 and Geometry and introduces rational expressions, complex numbers, solving a quadratic equation by completing the square and graphing using the vertex form of an equation, finding roots by long division and synthetic division, sequences and series, and solving a system of equations with a calculator using matrices. Advance features of the graphing calculator are incorporated into the course work, as well as real life problem-solving and applications of Algebra 2 in various fields, such as engineering and other sciences. Preparation for the SAT is an important part of Algebra 2.

Classroom Materials:

1. **Textbook:** Algebra 2- Concepts and Skills
McDougal Littell
2. **Notebook or Binder**
3. **Folder-** for any assignments, handouts, and homework
4. **TI-84 Plus Graphing Calculator**

Topics to be covered:

Units	Topic
1	Graphing systems of Inequalities
2	Functions and Inverse Functions
3	Coordinate and Function Transformations
4	Quadratic Functions
5	Polynomial Functions
6	Rational and Power Functions
7	Exponential and Logarithmic Functions
8	Trigonometric Functions
9	Inferential Statistics
10	Matrices
Mid-Term Exam (January 2017)	
Final Exam (June 2017)	

Grading Scale:

Assignment Type	Weighted Average
Assessments	60%
Classwork	20%
Disposition toward Learning	10%
Homework	10%
Total	100%

Common Formative Assessments: (CFA)

CFA's will be given before, during, and at the end of each unit to assess your individual progress within the lessons. They will be graded on a ***Wilby H.S. 21st Century Student Learning Expectation Rubric.***

Make-up Assignments:

Students who are absent on the day the assignment is given, have **3 Days** to make-up the work before it is marked "LATE". If you are absent on the day an **Exam** is given, you must make an appointment to be scheduled after school or during Mr. Brown's administrative time..

