

**Algebra II**  
**Course Syllabus**

**2011-12**

Mrs. Eileen McClellan  
Instructor

**Course Description:** Mathematics is an essential part of everyday life. Upper level Mathematics helps to increase problem-solving skills and has been shown to improve performance in other academic endeavors. Algebra II is taken after successful completion of the Integrated Courses or Algebra I and Geometry. The Course is worth 1 Math Credit and lasts 2 Semesters.

**Instructional Philosophy:** Students will be expected to keep a notebook and will have frequent homework. Class time includes note taking, problem solving and occasional projects and/or presentations. Methods of assessment will include grading of homework, notebooks, quizzes, test and projects. Students will be expected to keep all notes and assignments throughout the course in a folder/notebook. We will be utilizing the textbook, TI-83 Plus graphing calculator technology, the computer and smartboard to accomplish the objectives of the course.

**Materials Needed for the Course:**

- 3-ring binder or folder with pockets
- loose-leaf notebook paper
- pencil
- scientific calculator (TI-83 Plus/84 recommended but not required)

**Text:** Glencoe Algebra 2

**Course Goals:**

Students will...

- Demonstrate knowledge of Algebra II topics found in the Trumbull County Course of Study and the Ohio Department of Education Standards for Mathematics
- Be able to apply this mathematics to everyday life
- Become better problem solvers
- Develop more critical thinking skills through problem solving
- Be better able to use technology for mathematical purposes

**Possible Topics to be covered:**

- Operations on numbers and expressions including real and complex numbers
- Linear and non-linear equations and inequalities
- Polynomial and rational functions
- Function operations and inverses
- Data and statistics
- Matrices
- Conic Sections
- Logarithmic functions
- Trigonometric functions

**Course Assessment Plan:**

- Students are given points for course work.

Points usually given:

Homework:	10 points (Work must be shown to receive credit)
	1 day late—5 points (work shown)
Notebook:	50 points
Test:	100 points
Quiz:	less than 100 points

TCTC Grading Scale:

92% to 100% of total points	A
83% to 91% of total points	B
74% to 82% of total points	C
66% to 73% of total points	D
Below 66% of total points	F

- Students will be expected to complete comprehensive Semester and Final Exams that will be graded on the above grade scale and will be a separate grade on the report card. If a student receives all A's each 9 weeks and on the semester exam, s(he) will be exempt from the final exam.
- This class will follow the TCTC guidelines for discipline found in your Student Handbook.
- If you need extra help during the school year, please see me. I am willing to spend time with you after school if you make an appointment. Thank you and have a good year.

Mrs. Eileen McClellan

I have read and understand the requirements of this class.

\_\_\_\_\_  
Student's signature and date

\_\_\_\_\_  
Parent/Guardian signature and date