



**Gifted LearningLinks Program
Course Syllabus**

**Instructor name: C. Mehler
E-mail address: xxx@xxx.xxx**

Course Title: Algebra II and Trigonometry Honors

Course Description:

Prerequisite: Algebra I

Algebra II Honors is the equivalent of the second full-year course in high school algebra. This course includes review concepts from Algebra I and expands on inequalities, polynomial equations, rational expressions, complex numbers, variation, analytic geometry, exponents, logarithms, trigonometry (basic concepts, graphs, equations and inequalities, applications), statistics, probability, and matrices. Students should already have experience with graphing and solving linear and quadratic equations. A graphing calculator is required.

Please note: In previous years, the trigonometry unit has been optional. It is now required.

Outcomes:

Upon successful completion of this course, students will know, understand, and be able to perform various operations involving the following topics in algebra and trigonometry:

Unit I

- Chapter 1: Equations and Inequalities
- Chapter 2: Linear Equations and Functions
- Chapter 3: Linear Systems and Matrices

Unit II

- Chapter 4: Quadratic Functions and Factoring
- Chapter 5: Polynomials and Polynomial Factoring
- Chapter 6: Rational Exponents and Radical Functions

Unit III

- Chapter 7: Exponential and Logarithmic Functions
- Chapter 8: Rational Functions
- Chapter 9: Quadratic Relations and Conic Sections

Unit IV

- Chapter 10: Counting Methods and Probability
- Chapter 11: Data Analysis and Statistics
- Chapter 12: Sequences and Series

Unit V

Chapter 13: Trigonometric Ratios and Functions

Chapter 14: Trigonometric Graphs, Identities, and Equations

Resources and Materials:

TEXT: Larson, Boswell, Kanold, and Stiff, *McDougal Littell Algebra 2*. © 2007. The text has a green binding with a picture of young woman in a yellow track and field uniform bearing the number “244” running into an x-y graph.

Student Evaluation and Grading Policies for Credit Courses Only:

CTD Grading scale

A+ 97-100	B+ 87-89	C+ 77-79	D+ 67-69	F Below 60
A 93-96	B 83-86	C 73-76	D 63-66	
A- 90-92	B- 80-82	C- 70-72	D- 60-62	

Each of 14 chapter quizzes is worth 10 points each. Each of 5 unit tests is worth 100 points each. A penalty of 2 points on quizzes, 20 points on unit tests, may be assessed for unexcused lateness. In the event that you know in advance that you are going to be late with an assignment, please have a parent call or e-mail the instructor. The instructor’s main concern is that the student maintain contact, even when there is difficulty.

If at the end of the nine-month session a student is unhappy with her/his grade, the student may take an optional final based upon questions missed in regular unit exams. On that optional final, the student may bring her/his grade up to 90% (A-). It is the student’s responsibility to notify the instructor of the desire to take the optional final, as well as plan time-wise to be able to complete the optional final by the end of the session.

IMPORTANT: Chapter quizzes are sent to the instructor directly by the student via scan-and-e-mail or fax. In contrast, the student in this class will be required to find a proctor to administer unit tests (five in all over the session). The proctor may not be an immediate relative or close family friend. Otherwise, any responsible adult (18+ years old) with a working e-mail address will suffice. In the past, students often have used school personnel, clergy, neighbors, arts/sports coaches, and human relations personnel at a parent’s place of business.

Instructor Biography:

Charlie Mehler has worked for the Center for Talent Development in various capacities (online, Saturday Enrichment Program, Summer Program) for ten years. He has taught math and computer operations for nearly a quarter century. Currently, Charlie is at work on a PhD in his other area of academic interest, theatre.



Contact Information:

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Please do not hesitate to contact the instructor if you have any questions or concerns.

Schedule:

Please see Course Operation and Timelines.

GLL Sample