



**Gifted LearningLinks Program  
Course Syllabus**

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

**Course Title: Trigonometry Honors**

**Course Description:**

*Prerequisite: Algebra I*

Trigonometry focuses on nonlinear functions, right triangle properties, and advanced algebra. Students use math to solve problems in everyday life while expanding mathematical concepts and logical thinking skills. Trig is commonly used in career fields including engineering, physics, construction and design.

This is an eighteen-week course that carries one semester's worth of high school credit.

**Outcomes:**

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

Chapter 13: Trigonometric Ratios and Functions

- 13.1 Use Trigonometry with Right Angles
- 13.2 Define General Angles and Use Radian Measure
- 13.3 Evaluate Trigonometry Functions of Any Angle
- 13.4 Apply Law of Sines
- 13.5 Apply Law of Cosines

Chapter 14: Trigonometric Graphs, Identities, and Equations

- 14.1 Graph Sine, Cosine and Tangent Functions
- 14.2 Translate and Reflect Trigonometric Graphs
- 14.3 Verify Trigonometric Identities
- 14.4 Solve Trigonometric Equations
- 14.5 Write Trigonometric Functions and Models
- 14.6 Apply Sum and Difference Formulas
- 14.7 Apply Double-Angle and Half-Angle Formulas

**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 13 section quizzes is worth 10 points each. Each of 2 chapter 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 eighteen-week 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:** Section 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 chapter tests (two 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. Charlie recently finished work on a PhD in his other area of academic interest, theatre.

**Contact Information:**

E-mail address: xxx@xxx.xxx  
 Home telephone: xxx-xxx-xxxx  
 FAX: xxx-xxx-xxxx

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

## **Schedule:**

First, please take a look at “Assignment #0” on the class website. This will explain a great deal about how this course operates. Please also note that you do not have to hand in your section homework assignments unless the instructor requests so.

In order to prepare for unit exams, the student is expected to study material (please see ASSIGNMENTS) with the idea of handing in chapter quizzes directly to the instructor. Once the quizzes for a chapter (for example, Chapter 13 = Sections 13.1, 13.2, 13.3, 13.4, 13.5, and 13.6) have been submitted AND graded, the student may take the unit exam. **UNDER NO CIRCUMSTANCES IS THE STUDENT TO TAKE A CHAPTER EXAM BEFORE GETTING GRADES FOR COMPONENT QUIZZES.** Please see “Assignment #0” for information on exam proctoring.

The student is VERY STRONGLY encouraged to contact the instructor via e-mail or telephone if the student is having difficulty with the material. The student should be prepared with a page or section number and an end of section exercise to discuss. Please note that it is the student’s responsibility to initiate contact when the student is having difficulty. Any solved example submitted by a student may be posted to the class BlackBoard website.

Also, please note that telling the instructor on a test that you don’t understand a question on a lab or test AFTER having handed it in is no excuse for poor work. Again, it is YOUR responsibility to contact the instructor with any difficulty BEFORE a piece of work is handed in

Please see Course Timeline tab for due dates.

It is understood in advance that during the first three weeks of an eighteen-week class, there will be difficulties with registration and text procurement. You do NOT need to contact me if you are going to be late during the first three weeks of a class.

There is absolutely no problem for a student to work ahead of the schedule. The student does not need to ask the instructor’s permission.

Please note that if you wish to take the optional final, you need to be finished with the Chapter 14 Test by week 16 of your course. No optional final will be given on extension.