

## **MATH 1710 - College Algebra (3) / MATH 1720 - TRIGONOMETRY (3)**

**(Advanced Algebra / Trigonometry Dual Enrollment)**

Instructor: Dr. Matthew Holmes

### **Objectives:**

During Advanced Algebra we will cover the following topics: Analysis of functions (linear, quadratic, polynomial, root, rational, exponential, logarithmic) using graphing calculators; partial fractions; synthetic division; conic sections; theory of equations; inequalities; applications.

During Trigonometry we will cover the following topics: circular functions, inverse circular functions, graphs of circular and inverse functions, identities, equations, angles, trigonometric functions, solution of triangles, elementary application of vectors, and trigonometric form of complex numbers.

### **Required texts:**

College Algebra - Fourth Edition by Beecher, Penna, and Bittinger (published by Addison Wesley)

Trigonometry : A Unit Circle Approach - Ninth Edition by Sullivan (published by Prentice Hall)

### **Grading Policy:**

The grading policies for the University of Memphis course and the Collierville Schools **differ**. Students will receive course grades based upon the grading scales of both Collierville Schools and the University of Memphis:

U of M grades: A 90-100, B 80 - 89, C 70 - 79, D 60 - 69, F 59 and below;

CHS grades: A 93-100, B 85-92, C 75-84, D 70-74, F 69 and below

**Your U of M grade will be based upon several tests, quizzes, and Final Exam in various formats: multiple choice, free response, term and event identifications. Here is the formula used:**

**Algebra - top 3 of the 4 regular tests = 60%, quizzes = 10%, and final = 30%.**

**Trigonometry - 3 of the regular tests = 60%, quizzes = 10%, and final = 30%**

The CHS grade will include all grades taken in the course. Only the Collierville High School grade will be shown in Powerschool.

For any additional questions, please feel free to contact me at [mholmes@colliervilleschools.org](mailto:mholmes@colliervilleschools.org)