Piedmont Technical College Course Syllabus

COURSE INFORMATION

Course Prefix/Number: MAT 170
Title: Algebra, Geometry, and Trigonometry I
Responsible Division: Arts and Sciences

Last Day to Withdraw from this Course: For the last date to withdraw from this course, consult the current Student Calendar.

Course Description:

For course, credit hour, pre-requisite(s) and co-requisite(s) information, visit the Detailed Course Information page: http://www.ptc.edu/courses/MAT170.

Textbook and Other Materials:

For textbook information and additional required and/or supplemental materials, visit the college bookstore (www.ptc.edu/bookstore).

Proctored Examinations:

Proctored examinations for distance learning courses taken at non-PTC campuses may require a proctoring fee for each exam taken.

COURSE POLICIES

Course policies are available online through the Academic Catalog and Student Handbook. Visit the Course Policies page (www.ptc.edu/syllabus/policies) for a detailed list of important policies and more information.

GRADE POLICY

Detailed grading policy information can be found on the Grading Policy webpage (http://www.ptc.edu/grading-policy). Final grade appeal information is available in the Academic Catalog (http://www.ptc.edu/catalog/).
ACCOMMODATIONS

Accommodations for ADA:

Information is available on the Student Disability Services webpage (http://www.ptc.edu/ada).

RATIONALE

Why do I need this course?

MAT 170 is a course for individuals working in the skilled trades that will need to use algebra and geometry constantly in daily work activities. This course is a composite of mathematical skills needed in several trade areas with emphasis on everyday work activities and real-world applications.

PROGRAM INFORMATION

For program information including required courses, program learning outcomes, gainful employment information and advisement information, refer to the Academic Program webpage. Go to Academics (http://www.ptc.edu/academics), select your program, and then select Credentials Offered.

COURSE STUDENT LEARNING OUTCOMES

Upon successful completion of this course and/or clinic, each student will be able to:

- Perform basic operations with signed numbers, exponents and square roots.
- Solve applied problems using algebraic expressions, equations, and formulas.
- Apply properties of plane Geometry to perform tasks with angles and geometric figures.
- Calculate surface area and volume using formulas for solid figures.
- Solve problems involving triangles by using trigonometric strategies.
GENERAL EDUCATION COMPETENCIES

Piedmont Technical College General Education Competencies for All Graduates:

This course may address one or more of the following General Education Competencies (assessment will be stated when applicable):

**Communicate effectively.**
Assessment:
- N/A

**Apply mathematical skills appropriate to an occupation.**
Assessment:
- Tests and graded homework questions

**Employ effective processes for resolving problems and making decisions.**
Assessment:
- Team Assignments

**Demonstrate the basic computer skills necessary to function in a technological world.**
Assessment:
- N/A

To validate proficiency in the general education competencies, students in some programs will be tested using Work Keys.