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: 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/).

Revision Date: 1/11/2021

ACCOMMODATIONS

Accommodations for ADA:

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

TITLE IX HARASSMENT AND SEXUAL ASSAULT INFORMATION

In accordance with Title IX of the Education Amendments of 1972, Piedmont Technical College does not discriminate on the basis of sex in its education programs or activities. Title IX protects students, employees, and applicants from sex discrimination in admissions and employment to include discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. More information regarding Title IX, including contact information for the Title IX coordinators, is available at Title IX Harassment and Sexual Assault Information (https://www.ptc.edu/about/legal-disclosures/title-ix-harassment-and-sexual-assault-information).

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 clinical, 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.