Course Outcome Summary
Standard Course

Math 119 Elementary Technical Mathematics

MONROE COUNTY COMMUNITY COLLEGE

Course Information
Division   Science-Mathematics
Contact Hours   30
Total Credits   2

Prerequisites   ENGL 090, RDG 090, and MATH 090, within the last three years is highly recommended, or a qualifying score on an accepted placement test.

Course Description

This course provides basic mathematics preparation for students in technology programs. It emphasizes fundamental operations of algebra and the solution of linear equations relating to technical applications. The course also includes estimation, scientific and engineering notation, proportion and variation, measurement systems and conversion methods, precision, accuracy, and error. The purpose of this course is to acquaint students with the type of mathematics that is used in the technical area. Students will be expected to work with mathematics numerically, graphically, analytically, and verbally.

Course Outcomes
In order to evidence success in this course, students will be able to:

1. Identify and use scientific and engineering notation.
2. Demonstrate conversion of a given measurement to another specified equivalent unit using conversion factors.
3. Rearrange formulas to solve for any specified variable.
4. Demonstrate estimation of answers to arithmetic operations without performing extensive pencil and paper calculations or using calculator.
5. Demonstrate solutions to applied word problems involving precents, ratios, proportions and variations using appropriate units and notations.
6. Demonstrate solutions to applied problems using given formulas and expressing answers in appropriate notation and units.

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