Alexandria Technical and Community College

MATH 1450: Technical Math

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 3
Lab Hours/Week: *.*
OJT Hours/Week: *.*

Prerequisites:
This course requires any of these five prerequisites:
  MATH 0429 - Beginning Algebra (Minimum grade: 2.0 GPA Equivalent and Number of Years Valid: 5)
  A score of 20 on test ACT Math
  A score of 52 on test Accuplacer Elementary Algebra
  A score of 2 on test Intermediate Algebra
  A score of 250 on test Accuplacer NG Quantitative Reasoning

Corequisites: None
MnTC Goals: None

This course covers topics in mathematics necessary for the technical fields. Emphasis is placed on solving applied problems using algebra, geometry, and trigonometry. Prerequisite: College level math score on a placement test or a minimum grade of "C" in Beginning Algebra (MATH0429)

B. COURSE EFFECTIVE DATES: 03/14/1999 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Solve linear, rational, and quadratic equations with real coefficients.
2. Algebraically manipulate equations to solve for any given variable.
3. Effectively work with US and Metric units of measurement.
5. Set up and solve equations concerning rates of change.
6. Solve applied problems related to cylinders and circles.
7. Solve applied problems involving equations with rational expressions.
8. Solve triangles using right-angle trigonometry.

D. LEARNING OUTCOMES (General)

1. The learner will attend all classes.
2. The learner will participate in class discussions and activities.
3. The learner will hand in all assignments when due.
4. The learner will take tests as administered.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus
G. SPECIAL INFORMATION

None noted