

Master Syllabus

MAT 1110 - Math for Technologists

Division: Science, Mathematics and Engineering

Department: Mathematics

Credit Hour Total: 3.0

Lecture Hrs: 3.0

Prerequisite(s): MAT 0050

Other Prerequisite(s): OR Other Satisfactory score on math placement test

Date Revised: May 2016

Course Description:

Solve applications in technology and geometry; convert within and between metric and English systems of measurement; read and interpret measurement tools and gauges; simplify algebraic expressions, solve linear equations and graph linear equations.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Graphing Linear Equations

Demonstrate the ability to graph equations of lines.

Assessment Method: Locally developed exams

Performance Criteria:

70% or higher correct responses on exams

Mathematical Computation

Compute with fractions, decimals, percentages, ratios and proportions as needed for a variety of applications for the technologist.

Assessment Method: Locally developed exams

Performance Criteria:

70% or higher correct responses on exams

Geometric Properties of 2- and 3-Dimensional Objects

Calculate perimeter, area and volume of basic 2 and 3 dimensional geometric objects.

Assessment Method: Locally developed exams

Performance Criteria:

70% or higher correct responses on exams

Solving Linear Equations

Demonstrate the ability to solve linear equations.

Assessment Method: Locally developed exams

Performance Criteria:

70% or higher correct responses on exams

Outline:

Compute with fractions, decimals, percentages, ratios and proportions as needed for related technology
Convert within and between metric and English systems of measurement
Use various measurement techniques involving shop measuring instruments
Compute various applications in technology involving measurements of length, area, volume, weight and temperature
Simplify algebraic expressions
Solve linear equations
Graph linear equations