

## 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

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### **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