

## Master Syllabus

### **MAT 1130 - Allied Health Mathematics**

**Division:** Science, Mathematics and Engineering

**Department:** Mathematics

**Credit Hour Total:** 3.0

**Lecture Hrs:** 3.0

**Prerequisite(s):** DEV 0024 OR DEV 0050 OR DEV 0074

**Other Prerequisite(s):** AND Other With a grade of C or better or satisfactory score on Sinclair Community College mathematics placement test

**Date Revised:** February 2014

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### **Course Description:**

Compute with fractions, decimals, percentages and proportions to solve allied health applications; convert within and between metric, household and apothecary systems; read and interpret allied health graphs, labels and forms; calculate and apply statistical concepts; solve problems involving scientific notation. Traditional testing (proctored or in Testing Center) is used in all online sections.

### **General Education Outcomes:**

- ▣ Critical Thinking/Problem Solving

### **Course Outcomes:**

#### **Mathematical Computation**

Accurately compute with fractions, decimals, percentages, ratios and proportions as needed for a variety of allied health applications.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Passing grade with a score of 70% or better on exams

#### **Measurement Conversion**

Convert appropriate units of measurement between and within the metric, household and apothecary systems and systems of time, temperature, length and weight.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Passing grade with a score of 70% or better on exams

**Assessment Method:** Simulations

**Performance Criteria:** Scores 70% or above on activities involving this outcome

#### **Graphs, Labels and Forms**

Read and interpret and/or complete graphs, labels and forms related to allied health.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Passing grade with a score of 70% or better on exams

**Assessment Method:** Simulations

**Performance Criteria:** Scores of 70% or better on activities involving this outcome

#### **Statistics**

Calculate and apply appropriate statistical concepts such as mean, median and mode.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Passing grade with a score of 70% or better on exams

**Assessment Method:** Simulations

**Performance Criteria:** Scores 70% or above on activities involving this outcome

### **Outline:**

Compute with fractions, decimals, percentages, ratios and proportions as needed for allied health applications  
Convert within and between metric, household and apothecary systems  
Read, interpret and complete allied health graphs, labels and forms  
Calculate and apply statistical concepts  
Solve problems involving scientific notation