

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

**ACADEMIC AFFAIRS**

Course Number: MATH 117 Department: Mathematics

Course Title: Contemporary Tech Appl. Semester: Spring Year: 1997

**Objectives/Competencies**

<b>Course Objective</b>	<b>Competencies</b>
1. Knowledge and comprehension of Algebra concepts.	1. Identify and differentiate among radical, exponential, scientific notations.
	2. Demonstrates ability to solve problems related to various notations.
	3. Apply concepts to landscape technology, graphic arts, energy systems.
2. Knowledge and comprehension of SI Metrics and customary (US) measures.	1. Identify each system of measurement.
	2. Demonstrate skill in converting between systems.
	3. Interpretation and calculation of problems related to landscape technology, graphic arts, energy systems.
3. Ability to use scientific calculators.	1. Recognize functions on a calculator.
	2. Demonstrate ability to solve multi-operational problems with calculator.
	3. Demonstrate ability to perform functions on a calculator.

<b>Course Objective</b>	<b>Competencies</b>
4. Knowledge and comprehension of logarithms.  5. Knowledge and comprehension of trigonometry.	1. Ability to recognize, label, and solve various operations and problems. 2. Interpret and solve application problems using logarithms.  1. Identify, differentiate among various solution formulas. 2. Skill in interpreting formulas necessary to solve problems. 3. Solve applications of trigonometric problems.