

**Course Objectives/Course Outline
Spokane Community College**

Course Title: Applied Technical Math and Physics

Prefix and Course Number: CAD 137

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Performing algebraic operations
- Rearranging formulas
- Utilizing geometric formulas and concepts
- Utilizing trigonometric formulas and concepts
- Understand and apply principles of physics
- Analyzing and solving complex practical problems

Course Outline:

- I. Algebra and Geometry Review
- II. Solid Geometry
 - A. Areas
 - B. Volumes and Weights
 - C. Density and Specific Gravity
- III. Physics Concepts
 - A. Velocity and acceleration
 - B. Force and motion
 - C. Work, power and energy
 - D. Vectors
- IV. Introduction to Engineering Math Applications
 - A. Statistics
 - B. Charts and graphs
 - C. Vectors