

Course Objectives/Course Outline

Spokane Community College

Course Title: Applied Geometry and Trigonometry
Prefix and Course Number: APM 122

Course Learning Outcomes:

By the end of this course, a student should:

- Identify types of angles and angular principles
- Identify triangles and apply geometric principles for shop problems
- Calculate areas of triangles
- Calculate volumes of prisms and cylinders
- Demonstrate the application of and apply trigonometric functions related to practical machine practices

Course Outline:

I. Week One

- A. Intro to Geometry
- B. Angles and Angular Geometric Principles
- C. Intro to Triangles

II. Week Two

- A. Circles, Area of Rectangles, Parallelograms, and Trapezoids

III. Week Three

- A. Areas of Triangles and Circles
- B. Sectors and Segments

IV. Week Four

- A. Volume and Metric System

V. Week Five

- A. Midterm Exam

VI. Week Six

- A. Intro to Trigonometry

VII. Week Seven

- A. Introduction to Trigonometry

VIII. Week Eight

- A. Basic Trig Calculations

IX. Week Nine

- A. Complex Practical Machine Applications

X. Week Ten

- A. Review

XI. Week Eleven

- A. Review

XII. Week Twelve

- A. Final Exam
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