

Print Date: 7/15/14
Course Objectives/Course Outline
Spokane Community College

Course Title: Applied Precision Measuring
Prefix and Course Number: CAD 134

Course Learning Outcomes:

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

- Identify measuring instruments and measuring system used in fabrication and machining
- Operate measuring instruments with reliability
- Calculate standard tolerances and determine compliance on parts
- Determine acceptable parts based on statistical data from measurements

Course Outline

- I. Dimensions, Tolerance, and Precision
 - a. Reading Engineering Drawings for Dimensions and Tolerances
 - b. Determine Measuring Tools and Units Required for Fabrication Methods
- II. Instrument Reading
 - a. Non-Precision Measuring Instruments
 - b. Precision Measuring Instruments and gages
 - c. Electronic/Digital Measuring Equipment
- III. Measuring Systems and Quality Control/Assurance
 - a. Interpretation and Documentation of Measurements
 - b. Measurement Systems
 - c. Statistical Processing of Data