# PRINT READING & MEASUREMENT
## SCOTT COUNTY SERIES
## COURSE SYLLABUS

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| Total Time: | 18 Hours |
| Schedule: | Six Three-Hour Classes |
| Textbook: | Machine Trades Printreading, 3rd Ed, Thomas E. Proctor, J. David Holloway, Jonathan F. Gosse, ISBN 978-0-8269-1881-9 (Required) |
| Course Description: | Print Reading and Measurement Tools will examine various techniques for representing three-dimensional objects in two-dimensional drawings. Included are common components and how each is specified on the print and an overview of dimensioning and tolerancing methods. Also included is a review of the measurement tools technicians frequently encounter and how they are used. ANSI requirements are referenced throughout the material. |
| Course Learning Outcome: | Students will be able to better navigate and interpret mechanical machine drawings and determine specifications of parts displayed on prints using common measurement tools. |
| Course Learning Objective: | Following oral and written instructions, the student will demonstrate an understanding of the following: |

1) Print Production – Types of Prints
2) Print Specifications – Paper Sizes, Basic Formats
3) ANSI – Standards and Requirements
4) Multiview Drawings – Orthographic Projection, Principal Views, Projection Systems
5) Line Conventions – Cutting Lines, Hidden Lines, Arrows, etc.
6) Surfaces and Features – Edges, Corners, Holes
7) Sectional and Auxiliary Views – Primary and Secondary
8) Measurement Systems – Units and Unit Conversion
9) Measuring Tools – Precision Measurements
10) Dimensioning and Tolerancing – Methods, Feature Characteristics

Evaluation Method: The following evaluation methods will be used in the classroom:

1) Attendance
2) Participation in classroom activities and homework
3) Written evaluations