

# MANUFACTURING TECHNOLOGY: BLUEPRINT READING

## Pierce County Careers Connection Dual Credit Articulation Agreement

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Upon completion of high school courses equivalent to the following competencies:

- Perform Basic Arithmetic
    - Addition, Subtraction, Multiplication, and Division of:
      - ~Common fractions
      - ~Mixed numbers
      - ~Decimals
    - Convert common fractions, mixed numbers, and decimals to equivalent number forms.
    - Round decimals, mixed numbers, and fractions.
  
  - Perform Math Functions Using Basic Measuring Tools with 80% Accuracy or Greater
    - Micrometer
    - Vernier calipers
    - Vernier height gauges
    - Protractors
    - Center gauges
  
  - Analyze and Apply Basic Principles of Lines on a Given Blueprint
    - Object lines
    - Hidden lines
    - Center lines
    - Extension lines
    - Projection lines
    - Line combinations
      - ~Arc/lines
      - ~Geometric shapes
  
  - Analyze and Apply Basic Principles of Blueprint Views:
    - Interpret two view drawings
    - Interpret three view drawings
    - Interpret auxiliary views
  
  - Interpret and Understand Dimensioning
    - Size and location of print dimensioning
    - Dimensioning of hole, cylinder points, arcs, and angles
    - Unilateral dimensioning
    - Bilateral dimensioning
    - Threads-internal and external
    - Tapers
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A student earning a “C” grade or better may earn college credit at one of the following colleges:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Clover Park Technical College	MCH 105 CIP Code: 48.0501	6