

# MAC 151 Machining Calculations

COURSE DESCRIPTION:

- D. Geometry
  - 1. Plane geometry
    - a. Perimeters of circles, triangles, and polygons
    - b. Areas of circle, triangles, and polygons
  - 2. Solid geometry – volumes
- E. Practical problems
  - 1. Gear computations
  - 2. Pitch and depth of screw threads
  - 3. Cutting speeds and feeds
- F. Algebra and Trigonometry problems
  - 1. Calculation of Algebra formulas
  - 2. Calculation of Trigonometry problems using sine, cosine, tangent

**REQUIRED TEXTBOOK AND MATERIAL:**

Mathematics for Machine Technology, 7<sup>th</sup> edition, author Robert D. Smith

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