

Minnesota
Articulated College Credit (ACC) Agreement
www.CTEcreditMn.com

Agreement Name: **Engineering Drawing I**

Agreement Last Reviewed: September 2017

Next Review Date: September 2019

Curriculum Content Objectives:

OUTLINE OF MAJOR CONTENT AREAS

1. Learn the history of engineering drafting, drafting career professions, and workplace ethics.
2. Discuss and identify drafting standards.
3. Describe and demonstrate the use of manual drafting equipment and supplies.
4. Identify manual drafting equipment, media, and media sizes.
5. Read and convert common drafting scales: Civil, Mechanical, Architectural, and Metric.
6. Sketch lines, circles, arc, and other geometric shapes utilizing various techniques.
7. Sketch isometric and multi-views.
8. Identify and use the ASME Standard alphabet of lines.
9. Identify and use the ASME Standard for lettering on engineering drawings.

LEARNING OUTCOMES (General)

1. The learner will identify and draw sheet sizes, lettering, and drawing media.
2. The learner will identify and draw geometric shapes.
3. The learner will draw and sketch geometric shapes both orthographically and isometrically.
4. The learner will complete 3 view drawings.

Assessments:

Students must achieve no less than 80% or B for a final grade in the high school course to receive ACC.

ACC Concept:

Skills for selected courses required for graduation in programs at the colleges participating in this regional agreement are taught in our schools using the assessments developed collaboratively by secondary and post-secondary staff. High School credit is earned and college credits are earned if the student meets the college achievement.