

# Minnesota Articulated College Credit (ACC) Agreement

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**Agreement Name:** **Engineering Drawings 1**

**Agreement Last Reviewed:** **Fall 2023**

**Next Review Date:** **Fall 2025**

College Courses				
Class	Title	School	Credits	
MACH 1605	Engineering Drawings 1	Minnesota State College Southeast	2.0	of 2.0
CAD 1225	Dimensioning & Tolerancing	Rochester Community & Technical College	1.0	of 3.0

These credits are valid for students 2 years after high school graduation from the completion of this course.

## **Curriculum Content Objectives**

100% of the curriculum learning outcomes will be covered in the high school course(s) by qualified CTE high school instructor(s).

1. Demonstrate professionalism
2. Identify line types
3. Identify title block information
4. Identify drawing types
5. Identify views
6. Identify missing views
7. Identify steels
8. Sketch missing views
9. Define datum
10. Interpret blueprints
11. Interpret dimensions
12. Interpret fractional tolerances
13. Interpret decimal tolerances
14. Interpret hole dimensions
15. Interpret limit dimensions
16. Interpret geometric symbols
17. Describe dimensioning types
18. Interpret screw thread specifications
19. Interpret sectional views
20. Interpret angular dimensions
21. Interpret taper specifications
22. Interpret bolt circle dimensions
23. Interpret cylindrical drawings
24. Describe geometric tolerance
25. Describe positional dimensioning
26. Describe surface texture

## **Assessments**

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

1. Complete all assignments and quizzes
2. Complete final exam
3. Drawings and prints
4. Dimensioning techniques
5. Tolerancing application
6. Machining details
7. Section views
8. Geometric tolerancing and dimensioning

## **ACC Concept**

Through Articulated College Credit (ACC), specific college curriculum content goals and assessments are embedded in participating high school career and technical education (CTE) programs as specified in this agreement. Relevant knowledge, skills, and standards are taught by qualified CTE high school instructor(s) in one or more high school course. ACC is awarded if the student meets the college equivalency standards and later enrolls in the college(s) listed requiring the course in a specific program.