

Minnesota Articulated College Credit (ACC) Agreement

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Agreement Name: **Engineering Drawings 2**

Agreement Last Reviewed: **Fall 2023**

Next Review Date: **Fall 2025**

College Courses			
Class	Title	School	Credits
MACH 1625	Engineering Drawings 2	Minnesota State College Southeast	2.0 of 2.0
MACT 1812	Fixture Design and Tooling	Ridgewater College	1.0 of 2.0
CAD 2323	Advanced Dimensioning & Design	Rochester Community & Technical College	1.0 of 4.0

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. Explain machine shop safety
3. Describe casting
4. Describe auxiliary views
5. Describe surface texture
6. Describe running/sliding/press fits
7. Describe welding symbols
8. Describe dimensioning techniques
9. Describe geometric tolerance
10. Identify geometric symbols
11. Interpret blueprints
12. Interpret dimensional types
13. Identify section views
14. Describe dimensioning types
15. Identify positional dimensioning
16. Identify title block information
17. Interpret threaded fasteners
18. Complete all drawings and sketches
19. Interpret taper specifications
20. Interpret hole dimensions
21. Interpret running/sliding/press fits
22. Interpret screw thread applications
23. Interpret structural steel shapes
24. Interpret welding symbols
25. Sketch missing views
26. Interpret pin fasteners

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. Orthographic projection
4. Special views
5. Fasteners
6. Casting prints
7. Welding prints
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.