

# Minnesota

## Articulated College Credit Agreement

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#### Articulated College Credit Agreement

Through Articulated College Credit (ACC), specific college curriculum learning outcomes 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 courses. ACC is awarded if the student meets the college equivalency standards and later enrolls in the college(s) listed below requiring the course in a specific program.

**Agreement Name**            **Cabinetmaking: CNC Wood Product Manufacturing**  
**Agreement Reviewed**    **2024 – 2025**

**These credits are valid for students in grades 9-12 for 5 years from the completion of this course.**

College	College Course	College Program	Articulated College Credit
Hennepin Technical College – Brooklyn Park	CBTG 2552 – Cabinetmaking: CNC Wood Product Manufacturing	*CNC Machining for Wood & Plastic (Occ. Cert. – 13 cr.)	1 credit of 3 credits

#### Agreement Description

This course will use Router-CIM software and an Onsrud CNC router to create component parts for the purpose of manufacturing wood-related products. Students will design, draw, machine and assemble wood products to understand the application of this technology in the wood industry.

#### Learning Outcomes

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

- Analyze product drawings for part machining
- Determine joinery needs
- Engineer part product drawings
- Determine machine processes and fixture requirements
- Determine material tolerances
- Create machine programs
- Machine components
- Evaluate component parts and machine programs
- Assemble product

#### Course Grade

Students who earn a grade of **80% or better** in the course(s) qualify for Articulated College Credit.