Minnesota
Articulated College Credit Agreement
www.CTEcreditMn.com

Articulated College Credit (ACC) Agreement

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 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	**Architectural CAD: Basic AutoCAD**
Agreement Reviewed/Revised	**2024 – 2025**

These credits are valid in the college program listed below for students in grades 9-12 for 5 years upon completion of the high school course(s).

College	College Course	College Program	Articulated College Credit
Hennepin Technical College	ARCH 1101 – Architectural Residential AutoCAD	*Architectural Technology (A.A.S. – 72 cr.)	2 credits of 5 credits (2 credits lecture)
Minneapolis College	ARCH 1030 – AutoCAD I	*Architectural Technology (Diploma - 55 cr.) *Architectural Technology (Cert. – 25 cr.)	2 credits of 2 credits

Agreement Description

This course will introduce the student to the basics needed to use the computer and AutoCAD software as a tool in the preparation of architectural working drawings. Topics covered include CAD terminology and coordinate systems, drawing set-up, drawing and modifying commands, annotation, dimensioning, hatching, and plotting. Architectural drawing projects are included in this course.

Program Outcome Covered in Course

- Demonstrate proficiency using CAD software and related computer tools

Curriculum Learning Outcomes

40% of the curriculum learning outcomes will be covered in the high school course(s) by qualified CTE high school instructor(s).

To receive credit, students will master the following content goals:
- Utilize coordinate systems for data entry
- Set-up drawing parameters
- Manage drawings files
- Construct geometry
- Modify geometry
- Manage object properties
- Use object snaps
- Manage text within AutoCAD
- Manage dimensions on floor plans
- Manage hatch patterns on plans and elevations
- Plot drawings to scale
- Complete a project template
- Manage block references
- Access Design Center
- Draft floor plan walls with openings
- Manage layer setup
- Draft foundation plan
- Utilize AutoCAD modification tools
- Draft accurate floor plan layout
- Draft accurate sections
- Draft accurate elevations
- Produce an accurate set of residential construction documents

Course Grade

Students who earn a final grade of **80% or higher** in their high school class qualify for Articulated College Credit**.**

Recommended Industry-Recognized Certification
or Technical Skill Assessment – High School

Certification/ Assessment	Vendor	Other Information
CAD Architectural Design I (631)	Precision Exams	http://www.precisionexams.com/minnesota/files/standards-pdfs/(631)ks.pdf

For Further Information:

For an overview of the Architectural Technology program at Hennepin Technical College, go to:
https://www.hennepintech.edu/programs/overview/Architectural_Technology