

Minnesota

Articulated College Credit (ACC) Agreement

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Articulated College Credit Agreement

Through Articulated College Credit, 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 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. In some cases, credit toward electives is also an option.

Agreement Name	Introduction to Inventor
Agreement Reviewed/Revised	2024 – 2025

These credits are valid for students in grades 10-12 for 5 years from the completion of this course.

College	College Course	College Programs	ACC
Hennepin Technical College	ENG 1160 – Inventor	<ul style="list-style-type: none">Engineering CAD Technology (A.A.S. – 72 cr.)Engineering CAD Technology (Diploma – 64 cr.)	2 of 4 credits
	ARET 2150 - Engineering Design & Fabrication	<ul style="list-style-type: none">Automated Robotics Engineering Technology (A.A.S. – 60 cr.)	1 of 2 credits

Course Description

This course is designed to educate the student in basic part and assembly modeling techniques. Students will explore topics such as the Autodesk Inventor interface, sketching tools, part modeling tools, assembly modeling tools, the Design Assistant, creation of drawing views, working drawings, and creating bills of materials.

Course Learning Outcomes

To complete these requirements, students will:

1. Explain design intent
2. Design a basic parametric modeling procedure
3. Compose a model history tree
4. Customize modeling environment
5. Check fits and allowances
6. Construct solid model geometry
7. Create a detailed drawing
8. Construct an assembly model
9. Reorganize model tree geometry
10. Apply placed features
11. Add parametric constraints
12. Amend unresolved model geometry
13. Construct datums and work planes
14. Differentiate Inventor file types

Assessments:

Mastery of **80% or higher of 50% of course outcomes listed above** will meet the college credit requirement.

Text for reference:

Check with the college bookstore for the current textbook

Recommended Industry-Recognized Certifications or Comprehensive Assessments – High School & College

Certifications/ Assessments	Vendors	Other Information
Inventor Certified User	AutoDesk	www.autodesk.com
Inventor Certified Professional	AutoDesk	www.autodesk.com