

# Minnesota

## Articulated College Credit (ACC) Agreement

[www.CTEcreditMn.com](http://www.CTEcreditMn.com)

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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 course. 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: 2023– 2024**

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

College	College Course	College Programs	Articulated College Credit
Hennepin Technical College	ENG 1160 – Inventor	Engineering CAD Technology (A.A.S. – 72 cr.; Diploma – 64 cr.)	2 credits (2 lecture – 32 hrs.) of 4 total credits

### Course Description

This course introduces the student to basic part and assembly modeling techniques. 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 may be addressed, but not required since partial college credit is given to the student in a CTE-approved high school program.

### 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

### **Course Learning Outcomes (Cont.)**

7. Create a detail 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 at least 50% of course outcomes listed above** will meet the college credit requirement.

#### Text for reference

Check with college bookstore for current textbook

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

<b>Certification/ Assessment</b>	<b>Vendor</b>	<b>Other Information</b>
Inventor Certified User	AutoDesk	<a href="http://www.autodesk.com">www.autodesk.com</a>
Inventor Certified Professional	AutoDesk	<a href="http://www.autodesk.com">www.autodesk.com</a>