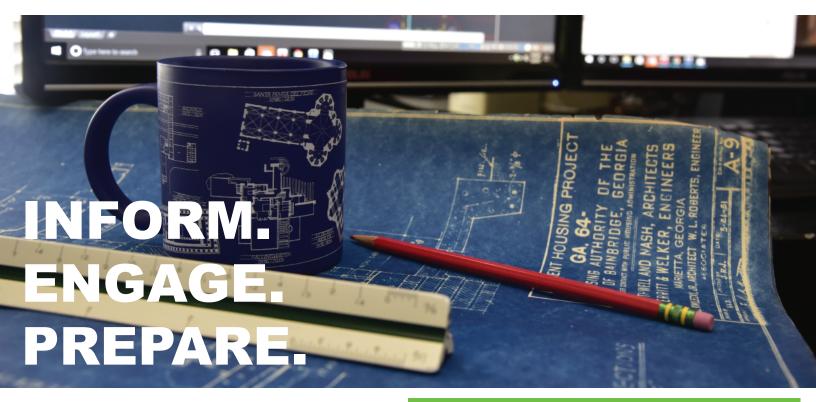
# **Drafting and Design**

AutoDesk REVIT for Architecture SolidWorks Professional User for Engineering Drawing





### 9TH & 10TH GRADE

# PATHWAY OVERVIEW

Every item in our lives, from the cup in our hand to the plane in the sky, began as an idea that had to be designed and drafted.

Today's drafting and design requires the use of high-powered Computer-Aided Drafting (CAD) programs such as AutoCAD and SolidWorks to create drawings, plans and virtual 3-D models for 3-D printing and machining. The 4C Academy's Engineering Drafting and Design pathway prepares students for careers in engineering, architecture, industrial manufacturing, and other industries. Upon completion of the pathway, students take the SolidWorks Certified User test. SolidWorks certification is the gold standard and asserts that students have the necessary knowledge and skills to be a successful and valued employee.

Course 1: Introduction to Drafting and Design Course 2: Survey of Engineering Graphics Course 3: 3-D Modeling and Analysis

## **REAL WORLD OPPORTUNITY**

- CAD Operator
- Designer
- Engineer
- Architect

### 11TH & 12TH GRADE

# **INDUSTRY CERTIFICATIONS**

The following training courses are offered for students who have completed an accredited Engineering Drafting and Design pathway. Upon pathway completion, students will have the opportunity to take the credentialing exam for an industry certification.

AutoDesk REVIT for Architecture

- floor plans
- elevations
- sections and details
- construction principles
- presentation drawings

SolidWorks Professional User for Engineering Drawing

- Advanced Modeling
- Advanced Assemblies
- Animation for collision detection
- Mass property analysis

Both courses are a combination of in-class instruction and online course work. Students may be responsible for exam fees.

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