

Drafting and Design

AutoDesk REVIT for Architecture

SolidWorks Professional User for Engineering Drawing



COMMODORE CONYERS
COLLEGE & CAREER
ACADEMY



**INFORM.
ENGAGE.
PREPARE.**

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.

www.4CAcademy.org
PH: 229-431-1562
1615 Newton Road
Albany, GA 31701