



# Computer Aided Design and Drafting Certificate

**Program:** Computer Aided Drafting

**Program Code:**

CD

**Academic Area:**

Science, Technology, Engineering and Mathematics

**Type:**

Certificate of Recognition

**CIP Code:**

15.1301

## Program Statement

This one-year certificate program provides students with the needed skills to become a professional computer-aided architectural draftsman, civil draftsman, mechanical designer, or manufacturing operator in the engineering industry. Students learn fundamental concepts of engineering drawing through advanced computer-aided design techniques.

## Program Information

- This program serves as a solid basis for advanced work in a degree program. All courses apply to Bristol's Automation, Architectural & Civil, Electro-Mechanical, Environmental, and Mechanical degree programs.
- Students utilize high-tech computer equipment and the latest AutoDesk, SolidWorks, and/or CAM software.

## After Bristol

Graduates are prepared for positions as architectural and civil CAD operators/drafters and mechanical designers.

## Program Requirements

*Choose Architectural and Civil or Mechanical and Manufacturing Concentration.*

### Architectural and Civil Concentration

Course #	Title	Credits
CAD 101	Computer Aided Drafting	3
CAD 122	Architectural Drawing	3
CAD 125	3D Architecture, Building, and Landscape Design	3
CAD 128	Civil Drafting and Design	3



## Mechanical and Manufacturing Concentration

Course #	Title	Credits
CAD 101	Computer Aided Drafting	3
	CAD 111, CAD 112, CAD 172 or CAD 211	9
<b>Total credits:</b>		<b>12</b>

### Category Descriptions

#### CAD 111, CAD 112, CAD 172 or CAD 211

Credits: 9

Choose three of the following:

Course #	Title	Credits
CAD 111	Mechanical Design with Solidworks	3
CAD 112	Maker Space Projects and Advanced Mechanical Design with SolidWorks	3
CAD 172	Mechanical Design Using Inventor	3
CAD 211	Computer Aided Manufacturing	3