



Computer-Aided Design

curriculum code: 1681 | HEGIS code: 5303

minimum credit hours required: 26-27

This certificate program prepares students for entry-level manufacturing positions requiring skills in engineering drawing, computer-aided design, and computer numerical control. Students receive instruction on two CAD-based systems (AutoCAD and SolidWorks), a three-axis machining center, and a CNC turret lathe. Upon completion of the certificate, students will be prepared to compete for positions such as CAD operator, CAD designer, CNC operator, and CNC programmer. **Program completion will require students to attend some classes on the Jamestown Campus.**

Certificate Requirements	
CSC 1510: Introduction to Computer Science or CSC 1560: Computer Application Software I	3-4
MCT 1240: Engineering Drawing with AutoCAD	4
MCT 1270: Machine Theory and Operations	3
MCT 1310: Industrial Safety & Quality Practices	2
MCT 1320: Production Processes & Maintenance Awareness	2
MCT 1340: Manufacturing Drawings & Geometric Dimensioning & Tolerancing	4
MCT 1380: Introduction to Solid Modeling	3
MCT 2340: Dimensional Metrology	2
MCT 2380: Advanced Solid Modeling	3
Total Credits: 26-27	