



CNC Machining and Programming Certificate

Program Goals Statement

Students learn to use standard machine-shop equipment and operate and program CNC machinery to become manufacturing technicians. Students also understand the materials to be processed and technical drawing through the use of AutoCAD.

Program Information

- This program serves as a solid base for continuing on toward a degree, with all courses transferring to BCC's Automation, Electro-Mechanical and Mechanical Technology programs.
- This program utilizes BCC's NSF-funded Computer-Integrated Manufacturing (CIM) Laboratory facility, utilizing typical industrial CNC machining centers.

Subject: Computer Aided Drafting

Type: Certificate

Campus

Campus:

Fall River

Item #

Title

Credits

Program Requirements

Item #	Title	Credits
EGR 172	Material Science	4

Choose one of the following:

Item #	Title	Credits
CAD 101	Computer Aided Drafting	3
CAD 111	Mechanical Design with Solidworks	3
CAD 112	Advanced Mechanical Design with Solidworks	3
CAD 172	Mechanical Design using Inventor	3



Choose two of the following

Item #	Title	Credits
CAD 211	Computer Aided Manufacturing	3
EGR 111	Fundamentals of Manual Machining	4
EGR 112	Automated Machining	3

Recommended Course Sequence - Semester 1

Item #	Title	Credits
	CAD 101 or CAD 111 or CAD 112 or CAD 172	3
	EGR 111 or EGR 112 or EGR 172	3-4

Recommended Course Sequence - Semester 2

Choose two:

Item #	Title	Credits
CAD 211	Computer Aided Manufacturing	3
EGR 111	Fundamentals of Manual Machining	4
EGR 112	Automated Machining	3
EGR 172	Material Science	4
	Total credits:	13-14