

**MANUFACTURING TECHNOLOGY-Certificate in Computer Aided Design**

The Certificate in Computer-Aided Design prepares graduates for entry-level technician/design positions in the manufacturing industry. It provides theoretical background and practical skills and training in the design of components, tools, and machinery. The curriculum utilizes the latest and most popular manufacturing software design packages such as AutoCAD and Solidworks. All of the courses required in the Certificate can be applied to the Associate in Science degree in Manufacturing Technology.

A total of 25 credits are required for the Certificate.

**Manufacturing Technology – Certificate in Computer Aided Design**

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites	
Cluster A							
Introduction to Microcomputer Applications or Introduction to Computer Applications in Telecom	CIS 111	F/S/SU			3	ENG 091 and ENG 096 with a grade of "C" or higher on the departmental writing final examination essay or approp place score CIS 111 or CIS 115 or approval of Program Coordinator	
	CIS 115	F/S/SU					
Introduction to English Composition	ENG 100	F/S/SU			3		
Mechanical CAD I	MNT 101	F/S			3		
Manufacturing Processes I	MNT 110	F			3		
Cluster B							
Mechanical CAD II	MNT 102	SU			3		MNT 101
Solid Modeling (Solid Works)	MNT 103	F			3	MNT 101	
Geometric Tolerancing and Blueprint Reading	MNT 105	S			4		
Program Elective*	---	F/S/SU			3		
<b>Total credits required</b>					<b>25</b>		

**The Certificate:**  
Certificate in Computer Aided Design

**The Program:**  
Manufacturing Technology

**Your Next Step:**  
Entry into the workforce or enroll in Associate degree in Manufacturing Technology.

**Program Coordinator:**  
Contact Kathy Rentsch, Dean of Instruction,  
@ 508-854-2712

**Program Footnotes:**  
\*Program Elective: Students must select a course with one of the following prefixes BIO, CHM, MAT, MNT, PHY, PSY, QLC, or SPH; or the following suggested courses: MGT 211, MGT 221, MGT 225, MRK 201, MRK 221, or a course approved by the Program Coordinator.

Check the College Web site for course descriptions. <http://www.qcc.edu/>