

MANUFACTURING TECHNOLOGY, CERTIFICATE

The Manufacturing Technology program provides training in a wide variety of skill areas of product manufacturing and services. This certificate provides a foundation for the four degree options in the program: Automated Manufacturing Systems, Drafting/Design, Manufacturing Technology and Manufacturing Engineering Technology.

For more information about Manufacturing Technology, please visit the program page (<http://www.cod.edu/manufacturing/>).

Certificate Requirements

Field of Study Code: MANUF.CER

Code	Title	Credits
Program Requirements		
MANUF 1101	Industrial Design/CAD	3
MANUF 1104	Technical Mechanics	2
MANUF 1110	Metrology	3
MANUF 1121	Physical Metallurgy	3
MANUF 1151	Machine Shop I	3
MANUF 1153	Advanced Machine Processes	3
MANUF 1180	Quality Control	3
MATH 1115	Technical Mathematics I	3
or WELD 1100	Welding I	
ELECT 1100	Electricity and Electronics Fundamentals	3
ELMEC 1141	Hydraulics and Pneumatics	3
Program Electives		
Select six credits from the following: ¹		6
ELMEC 1171	Introduction to Robotic Technology	
MANUF 1102	Basic Robotics Fabrication	
MANUF 2201	Geometric Dimensioning and Tolerancing	
MANUF 2251	Computer Numerical Control (CNC)	
MANUF 2253	Computer-Aided Manufacturing (CAM)	
WELD 1122	Shielded Arc Welding (SMAW)	
WELD 1132	Metal Inert Gas (MIG) Carbon Steel Welding	
WELD 1142	Gas Tungsten Arc (TIG)	
Total Credits		35

¹ In addition to the courses listed above.