

ADVANCED MANUFACTURING TECHNOLOGY - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3921

This program prepares students for careers in aerospace, medical device, automotive aftermarket, and many other advanced manufacturing sectors where machine tool technologies are utilized. Students will learn a variety of valuable skills including print reading, shop math, and CNC machine tool programming. Students will learn inspection techniques using calipers, micrometers, indicators, thread-gaging, and automated measurement equipment, such as digital height-gages, and indicators. Students will create machine programs using the latest software technologies on the latest CNC machine tool equipment and simulators. The program is designed to be complete in 2 semesters and will provide students with the technical skills needed to find employment or advancement in the field of advanced manufacturing/machine tool technology.

Program Student Learning Outcomes

- Demonstrate the ability to create and interpret mechanical engineering drawings and specifications.

Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
ADMT 50	Advanced Manufacturing, Introduction	3
ADMT 200	Advanced Manufacturing Math	3
ADMT 251	Advanced Manufacturing, CNC Mills/Lathes	2
ADMT 252	Advanced Manufacturing, Sheet Metal CNC	2
ADMT 253	Advanced Manufacturing, Capstone	2
CAD 1	Intro Computer Aided Design SolidWorks	3
CAD 4	Geometric Dimensioning and Tolerancing	3
CAD 5	Intro to CAD/CAM MasterCAM	3
CAD 6	Computer Aided Design Advanced	3
ETEC 10	Introduction to Engineering Technology	2
ETEC 60	Material Science for Engineering Tech	3
OSHA 254	OSHA Standards for General Industry	2
WELD 50	Introduction to Welding	4
Total Units		35