ADVANCED MANUFACTURING TECHNOLOGY

Background

The entire Advanced Manufacturing Technology program consists of four exit points including a Certificate of Proficiency in Manufacturing Principles, a Technical Certificate in Industrial Production Technology, a more advanced Technical Certificate in Advanced Manufacturing Technology and an Associate of Applied Science in Advanced Manufacturing Technology degree. All core courses have been created based on the demand of businesses and industries.

Program Description

Completion of this technical certification marks the third of four exit points working toward an Associate of Applied Science in Advanced Manufacturing Technology degree. All core courses have been created based on the demand of businesses and industries. *Note: Satisfactory completion of courses in the Industrial Production Technology program are prerequisites for the courses in this more advanced technical certificate in advanced manufacturing.*

The program length for a full-time student in the Advanced Manufacturing Technology technical certificate is two (2) semesters.

Student Learning Outcomes

Upon successful completion of this technical certificate program a student should be able to:

- Perform all outcomes identified in the Industrial Production Technology program.
- Perform manufacturing system analysis and troubleshooting processes.
- Illustrate flow of materials and resources within the manufacturing cycle.
- Implement and control automated manufacturing processes.

GRADUATION REQUIREMENTS

(Suggested Schedule)

		Fall Semester	**Credit Hours**
AMST	10353	Quality Management	2
AMST	20353	Industrial Automation/Robotics	4
AMST	20153	Circuits and Controls for Manufacturing	3
AMST	20253	Fluid Control for Manufacturing	3
		Spring Semester	
AMST	20452	DC Equipment & Controls	2
AMST	20553	Environmental Protection Systems	3
AMST	20653	Industrial Motors and Motor Control	3
AMST	20753	Programmable Logic Controls for Manufacturing	3
		Exit: Advanced Manufacturing Technology Technical Certificate	**23**