

# AUTOMATION TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

## Curriculum

The matrix below is a sample plan for all coursework required for this program.

Course	Title	Hours	Completed
<b>Fall</b>			
AT 1133	INTRODUCTION TO MANUFACTURING COMPONENTS	3	_____
TMAT 1203	Technical Mathematics	3	_____
AT 1103	PROGRAMMING I	3	_____
AT 1163	FUND ELECTRICITY I (DC CRCTS)	3	_____
AT 1173	FUND ELECTRICITY II (AC CRCTS)	3	_____
	<b>Hours</b>	<b>15</b>	
<b>Spring</b>			
AT 1123	SEMICONDUCTORS I	3	_____
AT 1113	INDUSTRIAL NETWORKING	3	_____
AT 2203	COMPUTER SYSTEM COMPONENTS	3	_____
ENGL 1013	Composition I	3	_____
CIS 1113 or BST 1303 or AT 2013	Fundamental Computer Operation or Introduction to Computers or INTRO TO INDUSTRIAL ROBOTICS	3	_____
	<b>Hours</b>	<b>15</b>	
<b>Summer</b>			
AT 1143	INTRODUCTION TO DIGITAL LOGIC	3	_____
	<b>Hours</b>	<b>3</b>	
<b>Third Semester</b>			
AT 2213	SEMICONDUCTORS II	3	_____
ENGL 1023	Composition II	3	_____
AT 2123	INDUSTRIAL FLUID POWER	3	_____
AT 2153	INTRO TO INDUSTRIAL AUTOMATION	3	_____
AT 2133	INTRO TO PROGRAMMABLE CONTROLS	3	_____
	<b>Hours</b>	<b>15</b>	
<b>Fourth Semester</b>			
AT 2143	PROGRAMMABLE CONTROLLERS	3	_____
AT 2223	INTRODUCTION TO PROCESS TECHNOLOGY	3	_____
AT 2163	INDUSTRIAL AUTOMATION	3	_____
SS 1XXX	Social Science Courses	3	_____
	<b>Hours</b>	<b>12</b>	
	<b>Total Hours</b>	<b>60</b>	

(Concurrent students who earn a Certificate of Proficiency in Machining Concepts and Operations and a Certificate of Proficiency in Machining Operations Milling and Turning may progress to earn a Technical Certificate in Industrial Electronic Technology then an Associate of Applied Science degree by completing the remaining required courses below. Students pursuing the machining operations path will actually earn 62 hours.)

## Certificate of Proficiency in Machining Concepts and Operations

Code	Title	Hours
AT 2513	BLUEPRINTS/MEASUREMENTS/SAFETY	3
AT 2523	MACHINING TECHNOLOGY	3
<b>Total Hours</b>		<b>6</b>

## Certificate of Proficiency in Machining Operations Milling and Turning

Code	Title	Hours
AT 2514	CNC MILLING	4
AT 2524	CNC TURNING	4
<b>Total Hours</b>		<b>8</b>