

AUTOMATION TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

Curriculum

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

Course	Title	Hours
First Semester		
Fall and Spring		
AT 1103	PROGRAMMING I	3
AT 1123	SEMICONDUCTORS I	3
AT 1113	INDUSTRIAL NETWORKING	3
AT 1163	FUND ELECTRICITY I (DC CRCTS)	3
AT 1173	FUND ELECTRICITY II (AC CRCTS)	3
TMAT 1203	Technical Mathematics	3
Fall		
AT 1143	INTRODUCTION TO DIGITAL LOGIC	3
AT 2223	INTRODUCTION TO PROCESS TECHNOLOGY	3
AT 1133	INTRODUCTION TO MANUFACTURING COMPONENTS	3
AT 2203	COMPUTER SYSTEM COMPONENTS	3
AT 2213	SEMICONDUCTORS II	3
ENGL 1013	Composition I	3
Hours		36
Second Semester		
Spring		
AT 2123	INDUSTRIAL FLUID POWER	3
AT 2133	INTRO TO PROGRAMMABLE CONTROLS	3
AT 2143	PROGRAMMABLE CONTROLLERS	3
AT 2153	INTRO TO INDUSTRIAL AUTOMATION	3
AT 2163	INDUSTRIAL AUTOMATION	3
Fall and Spring		
Any Approved Social Science		
BST 1303 or CIS 1113	Introduction to Computers or Fundamental Computer Operation	3
ENGL 1023	Composition II	3
Hours		24
Total Hours		60

(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
Total Hours		6

Certificate of Proficiency in Machining Operations Milling and Turning

Code	Title	Hours
AT 2514	CNC MILLING	4
AT 2524	CNC TURNING	4
Total Hours		8
Course Title Hours		
First Year		
Fall		
ENGL 1013	Composition I	3
AT 2123	INDUSTRIAL FLUID POWER	3
AT 1163	FUND ELECTRICITY I (DC CRCTS)	3
AT 1173	FUND ELECTRICITY II (AC CRCTS)	3
TMAT 1203	Technical Mathematics	3
Hours		15
Spring		
AT 1123	SEMICONDUCTORS I	3
AT 1143	INTRODUCTION TO DIGITAL LOGIC	3
ENGL 1023	Composition II	3
BST 1303 or CIS 1113	Introduction to Computers or Fundamental Computer Operation	3
Approved Social Science		
Hours		15
Second Year		
Fall		
AT 2133	INTRO TO PROGRAMMABLE CONTROLS	3
AT 2143	PROGRAMMABLE CONTROLLERS	3
AT 2153	INTRO TO INDUSTRIAL AUTOMATION	3
AT 2163	INDUSTRIAL AUTOMATION	3
AT 2213	SEMICONDUCTORS II	3
Hours		15
Total Hours		45