AUTOMATION TECHNOLOGY PROGRAM

TECHNICAL CERTIFICATE IN INDUSTRIAL ELECTRONIC TECHNOLOGY

(Students who take Robotic elective courses may substitute classes as noted below and progress to earn a Technical Certificate in Industrial Electronic Technology by completing the remaining required courses below.)

Curriculum

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

Fall or Spring

Course Number and Name	Credits
AT 1123 SEMICONDUCTORS I	3
AT 1163 FUND ELECTRICITY I (DC CRCTS)	3
AT 1173 FUND ELECTRICITY II (AC CRCTS)	3
AT 2123 INDUSTRIAL FLUID POWER	3
Approved Elective Credit	2
Total Hours	**14**

Fall or Spring

Course Number and Name	Credits
BST 1003 Business English or ENGL 1013	3
AT 2213 SEMICONDUCTORS II	3
TMAT 1103	3
Approved Elective Credit	2
Total Hours	**11**

1st Summer Session (five-week course)

Course Number and Name	Credits
AT 1143 INTRODUCTION TO DIGITAL LOGIC	3
Approved Elective Credit	2
Total Hours	**5**

*(*Robotics Electives: AT 1103 PROGRAMMING I; AT 2103; AT 2033 INDUSTRIAL ROBOTICS PROGRAM; AT 2043 ROBOTICS AND MOTION CONTROL.)*

(Concurrent students who earn a Certificate of Proficiency in Machining Operations may progress to earn a Technical Certificate in Industrial Electronic Technology by completing the remaining required courses below. Students pursuing the machining operations path will actually earn 32 hours.)

Certificate of Proficiency in Machining Operations

Course Number and Name	Credits
AT 2513 BLUEPRINTS/MEASUREMENTS/SAFETY	3

Course Number and Name	Credits
AT 2514 CNC MILLING	4
AT 2523 MACHINING TECHNOLOGY	3
AT 2524 CNC TURNING	4
Welding Elective	3
Total Hours	**17**

Fall

Course Number and Name	Credits
BST 1003 Business English	3
AT 2123 INDUSTRIAL FLUID POWER	3
AT 1163 FUND ELECTRICITY I (DC CRCTS)	3
AT 1173 FUND ELECTRICITY II (AC CRCTS)	3
TMAT 1103	3
Total Hours	**15**