

# INDUSTRIAL CONTROL SYSTEMS, TECHNICAL CERTIFICATE

## Curriculum

(Concurrent students who earn a Certificate of Proficiency in Industrial Control Systems may progress to earn a Technical Certificate in Industrial Control Systems by completing the remaining required courses below.)

## Curriculum

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

| Course                 | Title                              | Hours     | Completed |
|------------------------|------------------------------------|-----------|-----------|
| <b>First Semester</b>  |                                    |           |           |
| 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         | _____     |
|                        | <b>Hours</b>                       | <b>15</b> |           |
| <b>Second Semester</b> |                                    |           |           |
| AT 1143                | INTRODUCTION TO DIGITAL LOGIC      | 3         | _____     |
| AT 2223                | INTRODUCTION TO PROCESS TECHNOLOGY | 3         | _____     |
| AT 2203                | COMPUTER SYSTEM COMPONENTS         | 3         | _____     |
| AT 2213                | SEMICONDUCTORS II                  | 3         | _____     |
|                        | <b>Hours</b>                       | <b>12</b> |           |
| <b>Third Semester</b>  |                                    |           |           |
| AT 2123                | INDUSTRIAL FLUID POWER             | 3         | _____     |
| AT 2143                | PROGRAMMABLE CONTROLLERS           | 3         | _____     |
| AT 2043                | ROBOTICS AND MOTION CONTROL        | 3         | _____     |
| AT 2153                | INTRO TO INDUSTRIAL AUTOMATION     | 3         | _____     |
| AT 2163                | INDUSTRIAL AUTOMATION              | 3         | _____     |
|                        | <b>Hours</b>                       | <b>15</b> |           |
|                        | <b>Total Hours</b>                 | <b>42</b> |           |