



### About the Program

The program prepares individuals to install, maintain, troubleshoot, and repair various types of measuring and control instruments and peripherals, such as measuring, transmitting, indicating, recording, and controlling devices, final elements, optical instruments and control systems. Specialized classroom instruction will be provided along with practical shop experience in the areas of electronics, motor controls, and different types of measuring systems.

### Degrees/Certificates

Associate of Applied Science Degree (AAS)  
 Technical Diploma (TD)  
 Certificate of Technical Studies (CTS)  
 Technical Competency Area (TCA)

*Available degrees and certificates may vary at each campus. Check with your local campus for more information.*

**CIP 150404**

| <b>Industrial Instrumentation Technology</b>   |  |                   |              |             |
|--|--|-------------------|--------------|-------------|
| Course #   | Course Title                                 | Lecture/Lab Hours | Credit Hours | Clock Hours |
| ORNT1000   | Student College Career Success               | 1/0               | 1            | 15          |
| CPTR1000   | Introduction To Computers                    | 1/1               | 2            | 45          |
| INST1120   | Fundamentals Of Direct Current Circuits      | 2/1               | 3            | 60          |
| INST1420   | Temperature Measurement                      | 2/1               | 3            | 60          |
| INST1110   | Introduction To Industrial Instrumentation   | 2/1               | 3            | 60          |
| <b>TCA - Instrumentation Helper I</b>  |  |                   | <b>12</b>    | <b>240</b>  |
| INST1410   | Flow Measurement                             | 2/1               | 3            | 60          |
| INST1130   | Fundamentals Of Alternating Current Circuits | 2/1               | 3            | 60          |
| INST1430   | Final Elements                               | 2/1               | 3            | 60          |
| <b>CTS: Instrumentation Helper II</b>  |  |                   | <b>21</b>    | <b>420</b>  |
| INST2625   | Motor Control & Variable Speed               | 2/2               | 4            | 90          |
| INST1425   | Digital Electronics & Control                | 2/2               | 4            | 90          |
| INST1331   | Pressure Level                               | 2/2               | 4            | 90          |
| INST1215   | Semiconductors & Transistors                 | 2/2               | 4            | 90          |
| INST2820   | Principles Of Process Control                | 2/1               | 3            | 60          |
| INST2650   | Controllers/Analog Control                   | 2/2               | 4            | 90          |
| INST2741   | Programmable Logic Controllers               | 2/2               | 4            | 90          |
| INST2731   | Analytical Measurements                      | 2/1               | 3            | 60          |
| JOBS2450   | Job Seeking Skills                           | 2/0               | 2            | 30          |
| <b>TD - Industrial Instrumentation Technician</b>  |  |                   | <b>53</b>    | <b>1110</b> |
| <b>Transferable General Education Courses Required For Associate of Applied Science (AAS ) Degree are listed below:</b>                    |  |                   |              |             |
| ENGL1015   | English Composition I                        | 3/0               | 3            | 45          |
| MATH1015   | College Algebra                              | 3/0               | 3            | 45          |
| PSYC2015   | Introduction To Psychology                   | 3/0               | 3            | 45          |
| PHSC1015   | Physical Science I                           | 3/0               | 3            | 45          |
| SPCH1015   | Introduction To Public Speaking              | 3/0               | 3            | 45          |
| <b>AAS – Industrial Instrumentation Technology</b>   |  |                   | <b>68</b>    | <b>1335</b> |
| <b>Optional Electives:</b>   |  |                   |              |             |
| CSRV 1000  | Customer Service                             | 3/0               | 3            | 45          |
| CSRV2000   | Customer Service and Sales                   | 3/0               | 3            | 45          |
| ENTP1000   | Foundations of Entrepreneurship              | 3/0               | 3            | 45          |
| <b>The following courses may be substituted for the above course requirements with approval from the College's Chief Academic Officer:</b> |  |                   |              |             |
| SPPR2991   | Special Projects I                           | 0/1               | 1            | 30          |
| SPPR2993   | Special Projects II                          | 0/2               | 2            | 60          |
| SPPR2995   | Special Projects III                         | 0/3               | 3            | 90          |
| SPPR2996   | Special Projects IV                          | 3/0               | 3            | 45          |
| SPPR2997   | Practicum                                    | 0/3               | 3            | 135         |
| SPPR2998   | Special Projects V                           | 1/0               | 1            | 15          |
| SPPR2999   | Cooperative Education                        | 0/3               | 3            | 135         |