

INSTRUMENTATION

» YOUR PATHWAY TO INSTRUMENTATION



A Coastal Bend In-Demand Career High School Endorsement: *Business & Industry*

Do you like

solving problems,
being part of a
team, working
in an industry
environment?

Learn to be an

Instrumentation
Technician, Installer,
Control Engineer,
Plant Manager.

Get paid from

\$17.07 to \$38.65
per hour, based on
education and
experience.

Certificate: Process Technology - 35 Total Hours

Courses you will need:

| | |
|-------------------------------------------|------------------|
| DC-AC Circuits | CETT 1409 |
| Introduction to Instrumentation | INTC 1305 |
| Safety, Health & Environment | PTAC 1308 |
| Special Topics in Communications | SPCH 1321 |
| Principles of Automatic Control | INTC 1341 |
| Industrial Mathematics or College Algebra | MATH 1314 |
| Instrumentation Calibration | INTC 1356 |
| Distributed Control & Programmable Logic | INTC 2336 |
| Unit Operations | INTC 1355 |
| Fieldbus Process Control Systems | INTC 2350 |

Associate in Applied Science Degree: Process Technology – 60 Total Hours

Use the courses listed above, plus the following:

Bold = Core

| | |
|-----------------------------------------|------------------|
| English Composition I | ENGL 1301 |
| AC/DC Motor Control | INTC 1357 |
| Programming Logic Controllers | ELMT 1301 |
| Digital Measurement and Controls | INTC 1350 |
| Applied Physics or Introductory Physics | PHYS 1305 |
| Instrumentation Systems Installation | INTC 2333 |
| Analytical Instrumentation | INTC 1348 |
| Internship-Instrumentation Technology | INTC 2388 |
| U.S. History to 1865 | HIST 1301 |
| U.S. History | HIST 1302 |

Bachelor of Applied Science Degree – Industrial Electronics and Manufacturing – 129 Total Hours

Use the courses above, plus the following:

Bold = Core

| | |
|--------------------------------|------------------|
| Composition II | ENGL 1302 |
| Intro to Ethics | PHIL 2306 |
| Creative Arts-Art Appreciation | ARTS 1301 |
| U.S. Government | POLS 2305 |
| State and Local Government | POLS 2306 |
| Macroeconomic Principles | ECON 2301 |
| Science Core | GEOL 1303 |
| Component Area Option | ARCH 1311 |
| Manufacturing Processes | ENTC 2402 |
| Circuit Analysis | ENTC 2414 |
| Material Science | ENTC 3410 |
| Behavior in Organizations | MGMT 3312 |
| Robotics & Automation | ENTC 3323 |
| Fluid Mechanics | ENTC 3406 |
| Programmable Logic Contr. | ENTC 4322 |
| University Electives | 20 hours |



Suggested course plan for 2018-2019 Academic Year. Consult individual college or university advisors/websites for specific degree plans.