

YOUR PATHWAY TO A CAREER IN

Instrumentation

An in-demand Coastal Bend Career



High School Endorsement: *Business & Industry*

Are you work under pressure, be part of a team, stay organized, meet deadlines?

Learn to be an Instrumentation Technician, Installer, Control Engineer, Plant Manager.

Get paid from \$21.15 to \$44.23 per hour, based on education and experience.*

*Workforce Solutions of the Coastal Bend Targeted Occupations List 2018-19



Consult your Coastal Bend college or university advisors/websites for specific degree plans.

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
English Composition I	ENGL 1301
Principles of Automatic Control	INTC 1341
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**

Special Topics in Communication	SPCH 1321
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
Creative Arts-Art Appreciation	ARTS 1301

Bachelor of Applied Science Degree – Industrial Electronics and Manufacturing – 120 Total Hours

Use the courses above, plus the following: **Bold = Core**

Composition II	ENGL 1302
Intro to Ethics	PHIL 2306
U.S. History II	HIST 1302
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	11 hours