



Instrumentation & Electrical Technology +8555

Instrumentation and Electrical students will install, maintain and calibrate devices used in the automation of industrial processes. These devices measure and control the pressure, temperature, level and flow of processes used in automated manufacturing and production. Students will utilize piping process, chemical pneumatic, hydraulic, electrical, and electronic computer and networking technologies.

First Year		
First Semester		
Course		Semester Hours
ELPT 1311	Basic Electrical Theory	3
ELPT 1321	Introduction to Electrical Safety & Tools	3
INTC 1305	Introduction to Instrumentation	3
ELPT 1225	National Electrical Code I	2
INTC 1307	Instrumentation Test Equipment	3
		14
Second Semester		
ELPT 1457	Industrial Wiring	4
INCR 1302	Physics of Instrumentation	3
DFTG 1325	Blueprint Reading and Sketching	3
INTC 2305	Instrument Hardware Installation II	3
INTC 1357	AC/DC Motor Control	3
		16
Summer Semester		
INTC 2388	Internship - Instrumentation Technology/Technician	3
		3
Second Year		
First Semester		
MATH	MATH 1332 or MATH 1342 or higher	3
INTC 1353	Analog Controls II	3
ELPT 2319	Programmable Logic Controllers I	3
.....	Social & Behavioral Science Elective	3
.....	Humanities/Fine Arts Elective	3
		15
Second Semester		
ENGL 1301	Composition I	3
ELPT 23559	Programmable Logic Controllers I	3
SPCH 1318	Interpersonal Communications	3
INTC 2330	Instrumentation Systems Troubleshooting**	3
		12
		Total Hours: 60

+Course of student identification number.

**Capstone Experience.

Note: A student who completes the required courses with an overall average of C may receive an Associate of Applied Science degree.