



Instrumentation & Electrical Technology (IETA)

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

		Semester Hours	Course
ELPT 1311	Basic Electrical Theory	3	
ENTC 1347	Safety and Ergonomics	3	
INTC 1305	Introduction to Instrumentation	3	
INTC 1353	Analog Controls II	3	
INTC 1307	Instrumentation Test Equipment	3	
		15	

Second Semester

Course		Semester Hours
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
ELPT 1225	National Electrical Code I	2
		15

Summer Semester

Course		Semester Hours
INTC 2388	Internship - Instrumentation Technology/Technician	3
		3

Second Year

First Semester

Course		Semester Hours
MATH	MATH 1332 or MATH 1342 or higher	3
ELPT 2319	Programmable Logic Controllers I	3
INTC 1357	AC/DC Motor Control	3
.....	Social & Behavioral Science Elective	3
.....	Humanities/Fine Arts Elective	3
		15

Second Semester

Course		Semester Hours
ENGL 1301	Composition I	3
ELPT 2355	Programmable Logic Controllers II	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.