

INSTRUMENTATION AND ELECTRICAL TECHNOLOGY

The Instrumentation/Electrical Technology program seeks to provide training for entry-level I&E technicians in various fields including refineries, commercial building maintenance, and other related industries.

The College of the Mainland Instrumentation & Electrical Technology program is pending approval by the Southern Association of Colleges and Schools Commission on Colleges.

Stackable Credentials

- Associate of Applied Science - Instrumentation & Electrical Technology- (Full-Time)
- Level 2 Certificate -Instrumentation & Electrical Technology - (Full-Time)
- Level 1 Certificate -Instrumentation & Electrical Technology - (Full-Time)

Full-Time Schedule

Associate of Applied Science Instrumentation & Electrical Technology

Certificate - Instrumentation & Electrical Technology

Level One Certificate

Full-Time Student Schedule

Course	Title	Semester Credit Hours
Semester #1		
CETT 1302	Electricity Principles	3
INCR 1302	Physics of Instrumentation	3
INTC 1322	Analog Controls I	3
PTAC 1308	Safety, Health, and Environment I	3
Semester Credit Hours		12
Semester #2		
INTC 1353	Analog Controls II	3
INTC 2310	Principles of Industrial Measurements II	3
INTC 1355	Unit Operations ¹	3
INTC 1315	Final Control Elements	3
Semester Credit Hours		12
Total Semester Credit Hours		24

Certificate - Instrumentation & Electrical Technology

Level Two Certificate

Full-Time Student Schedule

Course	Title	Semester Credit Hours
Semester #1		
CETT 1302	Electricity Principles	3

INCR 1302	Physics of Instrumentation	3
INTC 1322	Analog Controls I	3
PTAC 1308	Safety, Health, and Environment I	3
ENGL 1301	Composition I	3
Semester Credit Hours		15
Semester #2		
INTC 1353	Analog Controls II	3
INTC 2310	Principles of Industrial Measurements II	3
INTC 1355	Unit Operations	3
INTC 1315	Final Control Elements	3
MATH 1314	College Algebra	3
Semester Credit Hours		15
Semester #3		
ELPT 2319	Program Logic Controller I	3
INTC 2330	Instrumentation Systems Troubleshooting	3
INTC 2388	Internship - Instrumentation Technology/ or INTC 2359 Technician ¹	3
		or Distributed Control Systems
INTC 1350	Digital Measurement and Controls	3
ENGR 1201	Introduction to Engineering	2
Semester Credit Hours		14
Total Semester Credit Hours		44

Associate of Applied Science - Instrumentation & Electrical Technology

Full-Time Student Schedule

Course	Title	Semester Credit Hours
Semester #1		
CETT 1302	Electricity Principles	3
INCR 1302	Physics of Instrumentation	3
INTC 1322	Analog Controls I	3
PTAC 1308	Safety, Health, and Environment I	3
ENGL 1301	Composition I	3
Semester Credit Hours		15
Semester #2		
INTC 1353	Analog Controls II	3
INTC 2310	Principles of Industrial Measurements II	3
INTC 1355	Unit Operations	3
INTC 1315	Final Control Elements	3
MATH 1314	College Algebra	3
Semester Credit Hours		15
Semester #3		
ELPT 2319	Program Logic Controller I	3
INTC 2330	Instrumentation Systems Troubleshooting	3
INTC 2388	Internship - Instrumentation Technology/ or INTC 2359 Technician ¹	3
		or Distributed Control Systems
INTC 1350	Digital Measurement and Controls	3
ENGR 1201	Introduction to Engineering	2
Semester Credit Hours		14

Semester #4

ENGL 2311	Technical Writing	3
CHEM 1405	Introductory Chemistry I (Process Tech) / Occupational Safety)(030)	4
SPCH 1315 or SPCH 1318	Public Speaking or Interpersonal Communication	3
PHIL 2306 or HUMA 1301	Introduction to Ethics or Introduction to the Humanities I	3
PSYC 2301 or SOCI 1301	General Psychology or Introduction to Sociology	3
Semester Credit Hours		16
Total Semester Credit Hours		60

¹ Capstone course