

ELECTRICITY AND INSTRUMENTATION TECHNOLOGY, C.A.S.

The **Certificate of Applied Science in Electricity and Instrumentation Technology** prepares graduates for positions as technicians that install, service, repair, and maintain electrical equipment in today's modern industrial, commercial and/or manufacturing facilities. Our state of the art hands on training provides students with the necessary skills to work with high voltage, 3 phase, commercial electrical equipment. This program allows for a seamless transition to the Associate of Applied Science in Multi-Craft Technology (<https://www.wvup.edu/future-students/academics/wtcis/multi-craft-technology/>) or Advanced Manufacturing Technoloy (<https://www.wvup.edu/future-students/academics/wtcis/advanced-manufacturing-technology/>).

Milestone Course

These courses are the keys to graduation and certification. Courses should be taken in the recommended semesters to stay on time for completion.

Career Planning

- Maintenance, Facilities or Instrument Technician
- Industrial Electrician

Students should average 15 credit hours per semester, or 30 per year, to graduate on time.

Total Degree Credits: 30-31

Course	Title	Hours
Semester 1		
COLL 101	ORIENTATION TO COLLEGE	1
ELEC 101	ELECTRICITY & ELECTRONICS FUND	3
ELEC 102	ELECTRICAL & INSTRUMENTATION 1	3
ELEC 103	ELECTRICAL & INSTRUMENTATION 2 ^{1,2}	3
ELEC 104	ELECTRICAL & INSTRUMENTATION 3	3
Quantitative Reasoning (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#qr) Elective: (MATH 125 is preferred)		3-4
Hours		16-17
Semester 2		
Writing and Rhetoric (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#wr) Elective: (ENGL 107 is preferred)		3
MTEC 102	INTRODUCTORY CRAFT SKILLS ^{1,3}	2
ELEC 202	ELECTRICAL & INSTRUMENTATION 4 ^{1,4}	3
ELEC 203	ELECTRICAL & INSTRUMENTATION 5	3
ELEC 204	ELECTRICAL & INSTRUMENTATION 6 ^{1,5}	3
Hours		14
Total Hours		30-31

- ¹ Milestone Course
- ² EI NCCER Level 2
- ³ NCCER Core
- ⁴ EI NCCER Level 3
- ⁵ EI NCCER Level 4

Degree requires a total of 30 credit hours. [Core Course Credit Hours : 7]

Code	Title	Hours
Core Courses		
COLL 101	ORIENTATION TO COLLEGE ¹	1
Writing and Rhetoric (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#wr)		3
Quantitative Reasoning (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#qr)		3
Program Courses		
MTEC 102	INTRODUCTORY CRAFT SKILLS	2
ELEC 101	ELECTRICITY & ELECTRONICS FUND	3
or MTEC 103	INTRO TO MAINTENANCE TECH	
ELEC 102	ELECTRICAL & INSTRUMENTATION 1	3
ELEC 103	ELECTRICAL & INSTRUMENTATION 2	3
ELEC 104	ELECTRICAL & INSTRUMENTATION 3	3

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ELEC 202	ELECTRICAL & INSTRUMENTATION 4	3
ELEC 203	ELECTRICAL & INSTRUMENTATION 5	3
ELEC 204	ELECTRICAL & INSTRUMENTATION 6	3
Total Hours		30

¹ Institutional Graduation Requirement.