Electronics Technology

Electronics technicians are employed in many business sectors, including forest products, defense, medical, communications, and government. Technician's jobs include medical equipment maintenance, plant maintenance, aircraft maintenance, manufacturing, automotive, and research. Networking technicians trained in electronics serve in a wide range of jobs. Training for electronic technicians must include mathematics, science, computer maintenance, networking, and basic and advanced electronic theories.

The curriculum provides a career path sequence of courses and awards that build upon each other. All courses in the level one certificate are also applicable to the degree.

Program Learning Outcomes (PLO)

PLO 1: Analyze and test an electronic circuit to identify operating parameters.

PLO 2: Construct various control systems using digital logic and interface circuitry.

PLO 3: Develop a digital control system using a combination of programmable and application-specific integrated circuits.

PLO 4: Construct a functional electronic system prototype using various fabrication methods, including printed circuit boards, wire wrapping, breadboarding, and soldering techniques.

PLO 5: Set up microcomputer systems and adapter/interface boards in a virtual lab environment.

Courses Measuring the Achievement of Program Learning Outcomes

Course	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
CETT 1409 (L1*, L1^, AAS)	X				
CETT 1425 (L1*, L1^, AAS)		X			
CETT 1449 (L1*, AAS)			X		
CETT 1321 (L1*, AAS)				X	
CPMT 1311(L1^, AAS)					X

ELECTRONICS TECHNOLOGY RECOMMENDED ACADEMIC PLAN

1ST YEAR, 1ST SEMESTER			Credit Hours	✓
Term 1				
CETT	1409	DC-AC Circuits	4	☐
CETT	1425	Digital Fundamentals	4	☐
CETT	1304	High-Reliability Soldering	3	☐
Term 2				
CETT	1449	Digital Systems	4	☐
CETT	1321	Electronic Fabrication	3	☐
✹ ***Earned:***		***Level 1 Certificate in Electronics Technology - Electronics Assembler****	**18**	
1ST YEAR, 2ND SEMESTER				
Term 1				
CPMT	1311	Introduction to Computer Maintenance	3	☐
BCIS	1305	Business Computer Applications	3	☐
STSU	0300	Student Success	0	☐
Term 2				
CPMT	2350	Industry Certification Preparation	3	☐
TECM	1301	Industrial Mathematics	3	☐
ENGL	1301	Composition I	3	☐
✹ ***Earned:***		***Level 1 Certificate in Electronics Technology - Computer Maintenance^***	**15**	
2ND YEAR, 1ST SEMESTER				
Full Term				
ITCC	1414	CCNA 1: Introduction to Networks	4	☐
Term 1				
SOCI	1301	Introduction to Sociology	3	☐
SPCH	1318	Interpersonal Communication	3	☐
Term 2				
PHYS	1305	Elementary Physics	3	☐
☞ ***Apply for Graduation***			**13**	☐
2ND YEAR, 2ND SEMESTER				
Term 1				
ITCC	1444	CCNA 2: Switching, Routing, and Wireless Essentials	4	☐
ARTS	1301	Art Appreciation	3	☐
Term 2				
ITCC	2420	CCNA 3: Enterprise Networking, Security, and Automation	4	☐
LOTT	1301	Introduction to Fiber Optics	3	☐
			14	
✹ ***Earned:***		***Associate of Applied Science in Electronics Technology***	**Total Hours**	**60**

Capstone Course: ITCC 2420 - CCNA 3: Enterprise Networking, Security, and Automation

Technical Math courses (TECM) do not satisfy the core general education Life & Physical Science/Math requirement.