

## School of Trade and Technology

# Electronics Technology Diploma ET14—54 Credit Hours

**Program Chair:** [daniel.halstead@westgatech.edu](mailto:daniel.halstead@westgatech.edu)

Courses may rotate among the following locations: Carroll

<input type="checkbox"/>	<p><b>**Learning Support Courses</b> (refer to Admissions evaluation). Examples include: ENGL 0998 and MATH 0091/1012 Not available online; courses must be completed on campus if student is provisional and not regular status.</p> <p><i>These courses are not calculated into students' institutional GPA. Learning support courses are individually assigned based on admissions testing results and program requirements. 0096 courses must be completed with the Adult Education department before starting college program—contact Admissions for questions regarding evaluations.</i></p>			
Semester 1	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	**ELCR 1005 (1)	Soldering Technology	None	Contact Daniel Halstead to choose your specialization in Semester 1
<input type="checkbox"/>	**ELCR 1010 (6)	Direct Current Circuits	Diploma program admission level math competency	
<input type="checkbox"/>	**EMPL 1000 (2)	Interpersonal Relations and Professional Development	None	
<input type="checkbox"/>	**MATH 1012 (3)	Foundations of Mathematics	Diploma program admission level math competency	
Semester 2	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	ELCR 1020 (7)	Electrical Systems Basic 1	ELCR 1010	
<input type="checkbox"/>	ENGL 1010 (3)	Fundamentals of English I	Diploma program admission level writing and reading competency	
Semester 3	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	ELCR 1030 (5)	Solid State Devices	ELCR 1020	
<input type="checkbox"/>	ELCR 1040 (5)	Digital and Microprocessor Fundamentals	ELCR 1020	

**\*\*First term suggestion:** All assigned learning support and/or EMPL 1000, ELCR 1005, ELCR 1010

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Semester 4	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	ELCR 2600 (3) -OR- CIST 1401	Telecommunication and Data Coding Computer Networking Fundamentals	ELCR 1010  Regular status (all learning support complete or no learning support required)	
<input type="checkbox"/>	ELCR 1060 (3)	Linear Integrated Circuits	ELCR 1020	

## And Choose ONE of the following Specializations:

<b>Industrial Electronics Technology Specialization (16 Credits)</b>				
Complete	Occupational Course Number (credits)	Course Name	Prerequisite	Notes
<input type="checkbox"/>	ELCR 2110 (3)	Process Control	ELCR 1020	
<input type="checkbox"/>	ELCR 2120 (3)	Motor Controls	ELCR 1020	
<input type="checkbox"/>	ELCR 2130 (3)	Programmable Controllers	ELCR 1020	
<input type="checkbox"/>	ELCR 2140 (2)	Mechanical Devices	Regular status (all learning support complete or no learning support required)	
<input type="checkbox"/>	ELCR 2150 (2)	Fluid Power	Regular status (all learning support complete or no learning support required)	
<input type="checkbox"/>	ELCR 2160 (3)	Advanced Microprocessors and Robotics	ELCR 1040	

**\*\*First term suggestion:** All assigned learning support and/or EMPL 1000, ELCR 1005, ELCR 1010

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<b>Field Occupation Specialization (16 Credits)</b>				
Complete	Occupational Course Number (credits)	Course Name	Prerequisite	Notes
<input type="checkbox"/>	<b>Choose 16 credits form the list below:</b>			
<input type="checkbox"/>	ELCR 2110 (3)	Process Control	ELCR 1020	
<input type="checkbox"/>	ELCR 2120 (3)	Motor Controls	ELCR 1020	
<input type="checkbox"/>	ELCR 2130 (3)	Programmable Controllers	ELCR 1020	
<input type="checkbox"/>	ELCR 2150 (2)	Fluid Power	Regular status (all learning support complete or no learning support required)	
<input type="checkbox"/>	ELCR 2590 (3)	Machining and Welding	Regular status (all learning support complete or no learning support required)	
<input type="checkbox"/>	ELCR 2600 (3)	Telecommunication and Data Cabling	ELCR 1010	
<input type="checkbox"/>	ELCR 2660 (4)	Security System Installation and Testing	None	
<input type="checkbox"/>	ELTR 1060 (3)	Electrical Prints, Schematics, and Symbols	None	

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<b>Biomedical Instrumentation Technology Specialization (18 Credits)</b>				
Complete	Occupational Course Number (credits)	Course Name	Prerequisite	Notes
<input type="checkbox"/>	ALHS 1011 (5)	Structure and Function of the Human Body	Regular Status (all learning support complete or no learning support required)	
<input type="checkbox"/>	ALHS 1090 (2)	Medical Terminology for Allied Health Sciences	None	
<input type="checkbox"/>	BMET 1231 (4)	Medical Equipment Function and Operation I	ALHS 1011	
<input type="checkbox"/>	BMET 2242 (4)	Medical Equipment Function and Operation II	BMET 1231	
<input type="checkbox"/>	BMET 2243 (3)	Internship Medical Systems	BMET 1231	

This program is eligible for Federal Aid including Pell Grant and federal student loans and may be eligible for Institutional and State Financial Aid. Contact the Financial Aid office for eligibility requirements and application materials.

As set forth in its student catalog, West Georgia Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, or citizenship status (except in those special circumstances permitted or mandated by law).