

# Carroll County Career & Technology Center



Electrical Construction instructs students in the layout, assembly, installation, and testing of electrical fixtures and methods of wiring using Local and National Electrical Codes.

## Major Units of Study

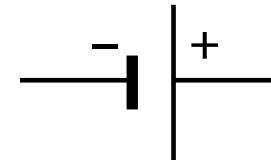
- Study of electrical theory
- Identification and use of electrical tools and materials
- Preparation of electrical connections
- Development of skills related to commercial and residential wiring
- Blueprint reading
- Study of electric motor control

## Related Careers

- Electrical Contractor
- Electrical Foreman
- Electrician Helper
- Electrical Inspector
- Electrical Supervisor

## Post-Secondary

- Apprentice Programs
- Articulated with the Associated Builders & Contractors, Inc. apprenticeship program
- Articulated with the Community College of Baltimore County
- Colleges
- Military Services
- On-the-job Training
- Technical Schools



Visit the Carroll County Career and Technology Center website:  
<http://www.carrollk12.org/ctc/>

**COMPLETER: *Electrical Construction***

**CREDITS: 6**

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
	Freshman Seminar (.5)			
<b>Completer Program Requirements</b>			Electrical Construction I (3)	Electrical Construction II (3)
<b>Career Specific Electives</b> (may be taken any year offered after prerequisites have been satisfied)	Technical Drawing & CADD (1), Power, Energy & Transportation Technologies (1), Alg./ DA Course 3 (1), Math Elective beyond Alg. II/DA (.5-1), Agricultural Mechanical Technology (1), Business Communications & Keyboarding (1), Career & Technology Research & Development (.5-3), Public Speaking (.5), Work-Based Learning Experience (.5-1)			
8 credits possible per year				
<b>Value Added:</b> <b>From:</b> <b>Program:</b>	Up to 1 year toward Apprenticeship Associated Builders & Contractors	6 Articulated Credits Community College of Baltimore County, Catonsville Construction Technology		
<b>End of Program Test:</b> <b>Industry:</b> <b>Taken:</b>	NCCT Electrical National Center for Construction Education and Research (NCCER) At the end of Electrical Construction II			