

CAREER TECHNICAL EDUCATION PATHWAY: Electrical Systems Technology



Career & College Promise (CCP)

CCP provides opportunities for eligible NC high school students to take tuition-free, college courses for dual credit (some students may have to pay for textbooks and materials). Taking CCP courses accelerates completion of college certificates, diplomas, applied associate degrees that provide entry-level job skills, and associate degrees that lead to transfer within the UNC System of 4-year colleges and universities and many private institutions.



Eligibility Requirements for Career Technical Education (CTE) Pathway

- High School Junior or Senior
- Weighted GPA of 3.0 or higher, or GPA below 3.0, written approval from High School principal/designee

General Admission Requirements

- WCC Admissions Application
- High School Transcript
- Registration and Verification Form

About the Electrical Systems Technology Pathway:

This pathway is a set of courses that students can take to earn a certificate toward the Electrical Systems Technology Diploma. These courses prepare students to work installing and maintaining electrical systems in residential, commercial and industrial facilities.

You will learn:

- AC/DC theory
- Basic wiring
- Programmable logic controllers
- Industrial motor controls
- Applications of the National Electric Code

Possible Job Titles:

- Electrical System trainee or apprentice
- Electrical maintenance and repair worker
- Electrical plant operator
- Code Compliance Inspector
- Electrical drafter

Possible Employment Opportunities:

- Any Residential/Business/Industry that requires ongoing maintenance of electrical systems

Annual Median Salary for Electrical and Electronics Repairers, Commercial and Industrial Equipment (NC) \$51,640

onetonline.org

Electrical Systems Technology Certificate			
Title	Class	Lab	Credit
ELC 112 DC/AC Electricity	3	6	5
ELC 113 Residential Wiring	2	6	4
ELC 117 Motors and Controls	2	6	4
ELC 118 National Electrical Code	1	2	2
ELC 119 NEC Calculations	1	2	2
Total Semester Credit Hours:			17

For more information, contact: **Trish Holsten, Secondary Partnerships Director**
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wilsoncc.edu/curriculum/career-college-promise

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