

CAREER TECHNICAL EDUCATION PATHWAY: Electrical Systems Technology (C35130HS)



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.

General Admission Requirements

- College CCP Admissions Application
- High School Transcript
- Verification Form

Electrical Systems Technology Pathway

Eligibility Requirements

- High School Junior or Senior
- Unweighted GPA of 2.8 or higher, **OR**, demonstrate college readiness in English, reading and math on approved assessments.
- If GPA is below 2.8, principles/designees can waive the GPA and provide rationale for waiver.



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.

Median Annual Wage for NC Commercial and Industrial Equip. Electrical and Electronics Repairers \$58,810 NCCareers.org

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

Electrical Systems Technology Certificate

Sem	Title	Class	Lab	Credit
FA	ELC 112 DC/AC Electricity	3	6	5
SU	ELC 115 Industrial Wiring	2	6	4
FA	ELC 117 Motors and Controls	2	6	4
SP	ELC 118 National Electrical Code	1	2	2
FA/SU	ELC 125 Diagrams and Schematics	1	2	2
Total Semester Hours Credit for Certificate				17

For more information, contact: Trish Holsten, Secondary Partnerships Director
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CONNECTING HIGH SCHOOL, COLLEGE, AND CAREER



High School (electives)

High School

COMPLETE GRAD REQ:

- English (4), Math (4), Social Sciences, Science (3), electives

SUGGESTED HS ELECTIVES:

- Agricultural Mechanics I & II
- CCP electives

CCP Dual Enrollment (college/HS concurrently)

Community College CCP Electrical Pathway

CCP JR AND SR YEARS:

- DC/AC Electricity
- National Electrical Code
- Diagrams and Schematics
- Industrial Wiring
- Motors and Controls

After High School (post graduation)

Community College Electrical Diploma

GEN ED

- English, Math

ELECTRICAL CLASSES:

- Commercial Wiring
- NEC Calculations
- Intro to PLC
- Industrial Electronics

ADDITIONAL REQUIRED CLASSES:

- College Student Success

