



## RESIDENTIAL & COMMERCIAL ELECTRICITY

### PROGRAM DESCRIPTION

The **Residential and Commercial Electricity** program provides students with the skills necessary for an entry-level job as an electrician. Thorough technical instruction is given in the layout, assembly, installation, and troubleshooting of fixtures, devices, services, heating systems, pumps, motors and motor controls used in residential, commercial, and some industrial locations. The students learn electrical theory and the techniques of the trade, including blueprint reading, wiring, pipe bending, motor control, switching, and power circuits. Emphasis is placed on meeting the requirements of the National Electrical Code in all wiring installations.

Successful completion of the course qualifies the student to take the **State of Maine journeyman's examination** and to enter employment under a master electrician.

Residential/commercial electricity is a three-semester program that starts in the fall semester.

### Career OPPORTUNITIES

Upon completion of the program, graduates are eligible to take the State of Maine journeyman's electrician examination. Upon passing the state examination, students are issued journeyman-in-training licenses. Graduates may find employment opportunities with **electrical contractors, electrical equipment suppliers, and industrial maintenance companies.**

### PROGRAM OUTCOMES

1. Understand and apply knowledge in layout, assembly, installation, and troubleshooting of fixtures, devices, services, heating systems, pumps, motors, and motor controls used in residential, commercial, and some industrial locations.
2. Understand and apply knowledge of electrical theory and techniques of the trade, including blueprint reading, wiring, pipe bending, motor control, switching, and power circuits.
3. Demonstrate ability to understand requirements of the National Electrical Code in all wiring installations.
4. Be eligible to take State of Maine journeyman's electrician examination and to enter employment under a master electrician.
5. Qualify for employment opportunities with electrical contractors, electrical equipment suppliers, and industrial maintenance companies.



*Washington County Community College is an equal opportunity/affirmative action institution and employer. For more information; please call Tatiana Osmond, Affirmative Action Officer, at 454-1040*



**Apply Now!**  
Use this QR code or go to  
[wccc.me.edu/apply](http://wccc.me.edu/apply).

Placement in MAT106, College Math for Technology or a graduate of a Regional Technical Center Electrical Program or equivalent or pass high school algebra with a C or better is required for admittance into the program. Students are assessed using the Accuplacer.

# Residential and Commercial Electricity Course Curriculum

**Diploma**

45 Credit Hours

Course #	Course Title	Credits
<b>Semester 1</b>		
DRG 126	Architectural Drafting and CAD	3
FYE 100	First Year Experience	1
MAT 106	College Mathematics for Technologies	3
REY 131	Residential and Commercial Electricity Technology I	2
REY 152	Residential and Commercial Electricity Technology II	8
TEC 150	Electronic Principles I	3
Total		20
<b>Semester 2</b>		
ENG 101	College Composition	3
NEC 111	National Electrical Code	3
REY 181	Residential and Commercial Electricity Technology III	9
REY 184	Residential and Commercial Electricity Technology IV	4
TEC 151	Electronic Principles II	3
Total		22
<b>Semester 3</b>		
REY 190	Residential and Commercial Electricity Internship	3
Total		3

Cost per credit hour is \$96. For more information visit: <https://wccc.me.edu/admissions-aid/finances/tuition-fees/>  
Financial Aid is available for students who qualify at [www.FAFSA.Ed.Gov](http://www.FAFSA.Ed.Gov) School Code: 009231

Visiting the campus is easy. Contact the Office of Admissions at 207-454-1000 or [wcccadmissions@maineccc.edu](mailto:wcccadmissions@maineccc.edu) to schedule a time to visit!

For more program specific information, please contact the program instructor Tim James, [tjames@maineccc.edu](mailto:tjames@maineccc.edu) or 207-454-1071