



2018-2019 PROGRAM REQUIREMENTS
Degree: Technical Certificate
Program of Study: Construction Electrical

About This Major . . .

This certificate in Construction Electrical is designed to prepare students for an apprenticeship electrician opportunity in the Construction electrical field. The curriculum incorporates courses in building materials, installations, codes, safety, tools, calculations, and print reading. Career options include obtaining a position as an: apprentice electrician, or electrical installer.

For more information on what you can do with this major, go to <http://www.coloradomesa.edu/wccc/programs.html>.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a construction electrician. (communication fluency)
2. Apply Mathematical concepts and practices that are required to properly calculate electrical formulas, and linear measurements. (quantitative fluency)
3. Evaluate evidence discovered during the diagnosis/troubleshooting of electrical systems and apply those findings to strategies to properly repair these systems. (critical thinking)
4. Describe the scope and application of principle features of the field of study, including core practices of a construction electrician. (applied learning)
5. Demonstrate personal and professional ethical behavior as applied to a construction electrician. (specialized knowledge)
6. Demonstrate mastery of the current terminology in the construction electrician industry. (specialized knowledge)

Advising Process and DegreeWorks

This document is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at <http://www.coloradomesa.edu/registrar/graduation.html>.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

INSTITUTIONAL CERTIFICATE REQUIREMENTS

The following institutional requirements apply to all CMU technical certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

PROGRAM-SPECIFIC CERTIFICATE REQUIREMENTS

- 30 semester hours for the Technical Certificate in Construction Electrical.
- 2.00 cumulative GPA or higher in coursework toward the major content area.

TECHNICAL CERTIFICATE: CONSTRUCTION ELECTRICAL REQUIREMENTS (30 semester hours, must earn a grade of “C” or better in each course.)

- ELCE 102 - Electrical Blueprint Reading (4)
- ELCE 110 - House Wiring (4)
- ELCE 120 - Commercial Wiring (4)
- ELCE 124 - Electrical Safety (1)
- ELCE 130 - National Electrical Code I (4)
- ELCE 135 - National Electrical Code II (4)
- ELCE 144 - Grounding and Bonding (1)
- ELCE 155 - AC Circuit Fundamentals (4)
- ELCE 220 - Industrial Controls (4)

SUGGESTED COURSE SEQUENCING

Freshman Year, Fall Semester: 13 credits

- ELCE 102 - Electrical Blueprint Reading (4)
- ELCE 110 - House Wiring (4)
- ELCE 124 - Electrical Safety (1)
- ELCE 155 - AC Circuit Fundamentals (4)

Freshman Year, Spring Semester: 17 credits

- ELCE 220 - Industrial Controls (4)
 - ELCE 130 - National Electrical Code I (4)
 - ELCE 135 - National Electrical Code II (4)
 - ELCE 120 - Commercial Wiring (4)
 - ELCE 144 - Grounding and Bonding (1)
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