

# Career and Technical Education Pathway

Effective 2012

## Electrical Engineering Technology Pathway (C40180-C5)

This pathway provides training for entry-level technicians desiring a career in electrical maintenance and management, design, planning, construction, development and installation of electrical systems, machines, automation and power generating equipment. The coursework progressively introduces electronics, circuit simulation using Electronics Workbench, AutoCAD, and Visual Basic Programming.

### Required Courses:

<u>Course Prefix/Number</u>	<u>Course Title</u>	<u>Credits</u>
ELC-138*	DC Circuits <i>(Prerequisite of MAT-121)</i>	3.0
ELC-139*	AC Circuits <i>(Prerequisite of ELC-138)</i>	3.0
ELN-137*	Electronic Devices & Circuits <i>(Corequisite of ELC-139)</i>	5.0
ELN-133*	Digital Electronics <i>(Prerequisite of ELC-138)</i>	4.0
MAT-121†	Algebra/Trigonometry I <i>(Requires a minimum Accuplacer scores of 55 in Arithmetic and Algebra)</i>	3.0

55 in

**Total Required Credits** **18.0**

\*Indicates a course with either a prerequisite or corequisite course.

†Indicates a course with a minimum placement test score.

- To be eligible for enrollment, a high school student must meet the following criteria:
  - Be a high school junior or senior;
  - Have a weighted GPA of 3.0 on high school courses or have the recommendation of the high school principal
  - Meet the prerequisites for the career pathway.
- To maintain eligibility for continued enrollment, a student must
  - Continue to make progress toward high school graduation
  - Maintain a 2.0 in college coursework after completing two courses.
- Upon satisfactory completion of the pathway, students may be awarded the Electrical Engineering Technology Certificate Specialization in Electrical Engineering Technology Pathway.

For more information on the enrollment and registration process, please go to  
<http://www.cpcc.edu/hsprograms/career-college-promise>



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