



Electronic for High School Students

Lake Area Tech Technical Institute, through the Corona Learning Center and in conjunction with the South Dakota Office of Career and Technical Education is offering the following High School Career and Technical Education (CTE) Electronics Courses:

CT00121 - DC Circuits

Description

This is a hands-on (the student uses laboratory equipment) entry-level electronics course that provides an understanding of direct current electricity. The student will be exposed to electrical quantities, and measurement systems. Furthermore students learn about schematic and pictorial diagrams, component familiarization, wiring and soldering techniques and the use of the multimeter.

Prerequisites	Algebra I
Appropriate Grade Levels	10,11, 12
Course Materials	Electronic
Technology	Online
Content Area	Career & Technical Education
When Offered	1 Semester (fall) or (spring)
Credit	Half

CT00122 - AC Circuits

Description

This is a hands-on (the student uses laboratory equipment) intermediate-level electronics course that provides an understanding of alternating current electricity. Students will learn about magnetism, and the basic electrical devices (coils, capacitors etc.). Additionally the student will learn how to use electronics test equipment, especially the oscilloscope.

Prerequisites	DC Circuits, Algebra I
Appropriate Grade Levels	11, 12
Course Materials	Electronic
Technology	Online
Content Area	Career & Technical Education
When Offered	1 Semester (fall) or (spring)
Credit	Half



CT00123 - Digital Circuits

Description

This is a hands-on (the student uses laboratory equipment) intermediate-level electronics course that provides an understanding of digital circuitry. Students will learn about: binary and hexadecimal numbering systems, gates, the various types of flip-flops, registers and memory circuits. Additionally the student will learn how to use electronics test equipment, especially the function generator, the logic probe, and the oscilloscope.

Prerequisites	DC Circuits, Algebra I
Appropriate Grade Levels	11, 12
Course Materials	Electronic
Technology	Online
Content Area	Career & Technical Education
When Offered	1 Semester (fall) or (spring)
Credit	Half

CT00124 - Analog Circuits

Description

This is a hands-on (the student uses laboratory equipment) upper-level electronics course that provides an understanding of complex analog circuitry. Students will learn about active electronic devices, especially the transistor, and the diode. Students will explore the use of amplifiers, oscillators, and pulse circuits. Additionally the student will learn how to use electronics test equipment, especially the function generator, and the oscilloscope.

Prerequisites	DC Circuits, AC Circuits, Algebra II
Appropriate Grade Levels	11, 12
Course Materials	Electronic
Technology	Online
Content Area	Career & Technical Education
When Offered	1 Semester (fall) or (spring)
Credit	Half

These courses are offered in cooperation with the Corona Learning Center. For more information contact Cheryl Rondeau-Bassett

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