

# ETEC - Electronics

## **ETEC 101 ETEC 101: AC/DC Electronics with Lab: 4 Credits (3 Lec, 1 Lab)**

Gallatin College Workforce Program.

## **ETEC 106 AC Circuit Analysis: 3 Credits (3 Lec)**

PREREQUISITE: ETEC 101

COREQUISITE: M 121Q and ETEC 113. (Sp) The intent of this class is to introduce the student to the practical application of alternating current voltage

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## **ETEC 113 Circuits Lab: 1 Credits (1 Lab)**

PREREQUISITE: ETEC 101

COREQUISITE: M 121Q. (Sp) This is the Circuits laboratory that accompanies ETEC 106: AC Circuit Analysis

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## **ETEC 245 Digital Electronics: 4 Credits (3 Lec, 1 Lab)**

PREREQUISITES: ETEC 101, ETEC 106 or 113, and ETEC 250

This course covers the theory and operation of semiconductor logic families and their circuits. Laboratory exercises allow the student to design, implement, and test a wide range of digital circuits using standard logic families and programmable logic devices.

## **ETEC 250 Solid State Electronics I: 4 Credits (3 Lec, 1 Lab)**

PREREQUISITES: ETEC 106 AND ETEC 113. This course introduces students to semiconductor materials, and provides the student with an introduction to basic semiconductor based solid state devices, how these devices operate, and their applications