ETEC 101. ETEC 101: AC/DC Electronics with Lab. 4 Credits. (3 Lec. 1 Lab) F
This is an examination of the principles and techniques of basic electrical concepts. Students will learn safe practices when handling electrical circuits and equipment, operating characteristics of direct current (DC) and alternating current (AC) electrical circuits. Selection, inspection, use and maintenance for common electrical test equipment is also covered. Gallatin College Workforce Program.

ETEC 106. AC Circuit Analysis. 3 Credits. (3 Lec) S
PREREQUISITES: M 111: Technical Math and ETEC 101 or ETEC 105.
COREQUISITE: ETEC 113. The intent of this class is to introduce the student to the practical application of alternating current voltage. Gallatin College Workforce Program.

ETEC 113. Circuits Lab. 1 Credit. (1 Lab) S
PREREQUISITES: ETEC 101 or ETEC 105 and M 111: Technical Math.
COREQUISITIE: ETEC 106. This is the Circuits laboratory that accompanies ETEC 106: AC Circuit Analysis. Gallatin College Workforce Program.

ETEC 245. Digital Electronics. 4 Credits. (3 Lec. 1 Lab) S
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) F
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.