

# ELECTRONIC TECHNOLOGY (605)

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## 605-102 Fundamentals of DC Circuits

**Credits:** 3

This course is a study of the basic theories, concepts, elements, and principles of DC circuits. The student advances from simple to complex circuits. Topics covered include Ohm's Law, series and parallel circuits, circuit theorems and circuit analysis. The course combines both lecture and laboratory work.

**Aid Code:** 10 - Associate Degree.

**Co-requisites:** 804-113

Complete Course Listing

## 605-104 Fundamentals of AC Circuits

**Credits:** 3

This course is a study of the basic theories, concepts, elements, and principles of AC circuits. The student advances from simple to complex circuits. Topics covered include reactance, impedance, resonance, transformers, inductors, and capacitors. The course combines both lecture and laboratory work.

**Aid Code:** 10 - Associate Degree.

**Pre-requisites:** (605-102)

**Co-requisites:** (804-114)

Complete Course Listing

## 605-106 Analog Circuits

**Credits:** 3

This course provides the student with the concepts and fundamental circuit design material to create several types of analog circuits. This course also explores the principles and concepts needed for solid-state devices to operate correctly. Course study includes: the use of solid-state devices such as diodes, transistors field-effect devices, and op-amps. Areas covered include: amplification, comparing, summing, wave shaping, regulating, and oscillation circuits. Analog to digital conversion and several types of integrated circuits are investigated and applied. Characteristics and application of each device type is verified in laboratory experiments.

**Aid Code:** 10 - Associate Degree.

**Pre-requisites:** (605-102)

**Co-requisites:** (605-104)

Complete Course Listing