MOORE NORMAN
TECHNOLOGY CENTER

Course Syllabus

Electronics Technician Program Part 2

TI281

Hours : In Class 204 Clinical Total 204

Description

This course covers the integrated circuits, electronic communications, basic computer systems and electronics component soldering. Students will apply basic electronic principles to solve problems in a variety of circuits. This course also covers operational amplifier gain, frequency effects on operational amplifiers, and various types of active filters including low pass, high pass, band reject, and band pass. Student swill construct and test circuits in the lab to meet specified operational parameters as well as analyze electronic circuits associated with amplitude modulation, frequency modulation, transmission lines, antennas and fiber optics. Basics of component soldering and computer systems and IT technology are covered.

Students may elect to test for certification at the end of the course, (ETA: CTE) test cost is included in tuition

Prerequisites

Succesful Completion of ti280

Learning Objectives

-Identify Differential amplifier circuits
-Predict phase relationships
-Calculate voltage output of differential amplifier

Teaching Philosophy

We believe that instructors, staff, and administrators have a shared responsibility to provide: 1) innovative course design and instruction; 2) a safe, learner-centered environment; and 3) an authentic learning experience.

Student Responsibilities

To ensure a quality and safe learning environment, students are required to follow the Post-Secondary Student Behavior policy #560. This policy can be found at www.mntc.edu/board-policies. Printed copies are available upon request.

Internet access and compatible hardware - a portion of the hours of this class are accomplished online.