

ELECTRONIC ENGINEERING TECHNOLOGY (EET)

EET1015C DC CIRCUITS (3.00 Credits)

This is a first course in electric circuits. Upon completion of this course the student should demonstrate an understanding of the definitions and interrelationships of voltage, current and power in circuits containing passive circuit elements and multiple sources.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$61.00

EET1025C AC CIRCUITS (3.00 Credits)

Upon completion of this course the student shall demonstrate a knowledge of circuit analysis using alternating voltage sources, including the behavior of resistive and reactive passive circuit elements, and frequency and transient response. Magnetic circuits, resonance and ideal transformers are also included. Extensive laboratory experience is included.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$61.00

Complete all the courses in the following option:

- Prerequisite: EET1015C (minimum grade: C)

EET1084C INTRODUCTION TO ELECTRONICS (3.00 Credits)

This course provides an introduction to the basic fundamentals, terminology, and applications used in the electronics industry. The topic coverage will include circuit theory principles, electronic components, transistor usage, amplifiers, power supplies, digital logic techniques, and electronic instruments. This course will also include some basic laboratory exercises to strengthen the topic coverage as it pertains to basic measurement involving both analog and digital circuits.

Total Contact Hrs: 64.00

Lecture Hrs: 48.00

Lab Hrs: 16.00

EET1141C LINEAR TECHNIQUES I (3.00 Credits)

This is the first course covering semi conductor devices and laboratory experiments. Topics covered include: semi conductor principles, rectifier diodes, zener diodes, BJT amplifiers, negative feedback amplifier, field effect transistors and FET amplifiers. Extensive laboratory experience is included.

Total Contact Hrs: 64.00

Lecture Hrs: 48.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$61.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: EET1015C (minimum grade: C) and EET1025C (minimum grade: C) and EET1084C (minimum grade: C)

EET2142C LINEAR TECHNIQUES II (3.00 Credits)

This is the second course covering advance semiconductor devices and laboratory measurements. The topics covered include: power amplifiers, frequency response of amplifiers, thyristors, LED and special diodes, operation amplifiers, filters, voltage regulators, basic communications circuits and programmable analog devices. The student will be able to use computer software to solve technical problems, program arrays, and aid in measurement systems.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$61.00

Complete all the courses in the following option:

- Prerequisite: EET1141C

EET2326C ELECTRONIC COMMUNICATIONS (3.00 Credits)

Basic electronic communications systems, RF amplifiers and oscillators, amplitude modulation, single side band modulation, frequency and phase modulation, pulse modulation, demodulation, and digital communication methods.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$61.00

Complete all the courses in the following option:

- Prerequisite: EET1141C (minimum grade: C)