

ELECTRONIC ENGINEERING TECHNOLOGY (EET)

EET1015C DC CIRCUITS (3.00 Credits)

This course introduces students to electric circuits, enabling them to demonstrate an understanding of the definitions and interrelationships of voltage, current, and power circuits containing passive elements and multiple sources. This course prepares students for a related technical certification.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$61.00

EET1025C AC CIRCUITS (3.00 Credits)

This course guides students to demonstrate knowledge of circuit analysis using alternating voltage sources, including the behavior of resistive and reactive passive elements, frequency and transient response, magnetic circuits, resonance, and ideal transformers. Students will gain extensive laboratory experience. This course prepares students for a related technical certification.

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 introduces the fundamentals, terminology, and applications used in the electronics industry. Students will explore circuit theory principles, electronic components, transistor usage, amplifiers, power supplies, digital logic techniques, and electronic instruments, supplemented by basic laboratory exercises focused on analog and digital circuits. This course prepares students for a related technical certification.

Total Contact Hrs: 64.00

Lecture Hrs: 48.00

Lab Hrs: 16.00

EET1141C LINEAR TECHNIQUES I (3.00 Credits)

This course introduces students to semiconductor devices and laboratory experiments, covering semiconductor principles, rectifier diodes, Zener diodes, BJT amplifiers, negative feedback amplifiers, field-effect transistors, and FET amplifiers, with extensive laboratory practice included. This course prepares students for a related technical certification.

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 course advances students' understanding of advanced semiconductor devices and laboratory measurements. Topics include power amplifiers, amplifier frequency response, thyristors, LEDs, special diodes, operational amplifiers, filters, voltage regulators, basic communications circuits, and programmable analog devices. Students will apply computer software to solve technical problems, program arrays, and assist 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)

This course explores basic electronic communications systems, focusing on RF amplifiers and oscillators, amplitude modulation, single sideband 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)