

COMPUTER ENGINEERING TECHNOLOGY (CET)

CET1114C DIGITAL TECHNIQUES (3.00 Credits)

This course enables students to analyze and apply digital logic circuits, covering topics such as binary, octal, and hexadecimal number systems, Boolean algebra, Karnaugh mapping, logic gates, flip-flops, counters, and registers, with extensive laboratory practice focused on combinational and sequential logic systems.

Total Contact Hrs: 64.00

Lecture Hrs: 48.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$61.00

CET1117C MICROPROCESSORS (3.00 Credits)

This course equips students to study and explain the organization and operation of a stored program digital computer, with an emphasis on CPU operations in response to assembly and machine language instructions. Students will also examine methods for selecting and operating I/O devices under program control and engage in sophisticated assembly language programming for the microprocessor.

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:

- Prerequisite: CET1114C (minimum grade: C)

CET2688C SYSTEM SECURITY PRACTITIONER (SSCP) (4.00 Credits)

This course will provide students with the knowledge and understanding of the internationally accepted common body of knowledge encompassing seven (7) security domains including Access Controls; Security Operations & Administration; Risk Identification, Monitoring and Analysis; Incident Response and Recovery; Cryptography; Network and Communications Security; and Systems and Application Security. Practice will also be provided to thoroughly prepare students for the SSCP certification exam offered by (ISC)2.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

CET3620C CISCO NETWORKING IV (3.00 Credits)

This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement virtual private network (VPN) operations in a complex network.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Complete all the courses in the following option:

- Prerequisite: CET2615C (minimum grade: C)