

COMPUTER ENGINEERING TECHNOLOGY (CET)

CET1114C DIGITAL TECHNIQUES (3.00 Credits)

The study and application of digital logic circuits. Topics include binary, octal and hexadecimal number systems, Boolean algebra, Karnaugh mapping, logic gates, flip flops, counters, and registers, applications in combinational and sequential logic systems. Extensive laboratory practice. Extensive laboratory practice.

Total Contact Hrs: 64.00

Lecture Hrs: 48.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$30.00

CET1117C MICROPROCESSORS I (3.00 Credits)

Study of the organization and operation of a stored program digital computer with emphasis on CPU operation in response to assembly and machine language instructions. Methods of selecting and operating I/O devices under program control will also be studied. Course work includes sophisticated assembly language programming for the microprocessor.

Total Contact Hrs: 64.00

Lecture Hrs: 48.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$30.00

Complete all the courses in the following option:

- Prerequisite: CET1114C (minimum grade: C)

CET2486C NETWORKING TECHNOLOGY (3.00 Credits)

This course covers topics in networking technology including OSI communications, networking and services, as well as troubleshooting of networking devices and components. Networking optimization is also included.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

CET2625C CISCO CCNP ROUTING (3.00 Credits)

This course provides students with the knowledge and skills necessary to use advanced IP addressing and routing in implementing scalable and secure Cisco ISR routers connected to LANs and WANs. The skills developed by students completing this course will help prepare them for the Cisco Route Exam.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

Fees: LABORATORY FEE \$98.00

Complete all the courses in the following option:

- Prerequisite: CET3620C (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

Fees: LABORATORY FEE \$10.00

CET2742C ADVANCED NETWORKING (3.00 Credits)

This course is for support professionals who are new to networking services and will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses various networking services. It also provides students with the prerequisite knowledge and skills required for implementing and administering directory services such as Microsoft Active Directory.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

Complete all the courses in one of the following options:

- Option 1 - Prerequisite: CET2486C (minimum grade: C)
- Option 2 - Prerequisite: CTS1134C (minimum grade: C)

2 Computer Engineering Technology (CET)

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)