CTS: COMPUTER TECH & SKILLS

Courses

	Credit(s)	Contact	Lab
CTS 1120C. INTRODUCTION TO NETWORK SECURITY.	3	2	1

INTRODUCTION TO NETWORK SECURITY Prerequisite: CTS 1134C This course covers a broad overview of security topics related to information security including: cryptography, security baselines, and current attack and counter attack methods. The course covers methods to secure communications. Web security and hardening the Network infrastructure. It also teaches the student to develop comprehensive security and management policies. It looks at both Windows and Linux security techniques for hardening the operating system. The objectives of this course are mapped to Comptia's Security + Certification Exam. (Special Fee: $66.00).

CTS 1131C. COMPUTER MAINTENANCE ESSENTIALS.	3	2	1

COMPUTER MAINTENANCE ESSENTIALS Provides detailed information on computer hardware, operating systems and networks. Students learn to install, configure, upgrade and replace computer system components; troubleshoot and upgrade hardware and peripherals; install, administer, troubleshoot and secure Windows and Linux operating systems; implement and secure a small network. At the end of this course students are prepared to take the CompTIA A+ certification examinations. (Special Fee: $66.00).

CTS 1134C. NETWORK ESSENTIALS.	3	2	1

NETWORK ESSENTIALS This course introduces networking concepts and terminology, including Data Communications and Network Services, OSI Model, Network Topologies, Network Media, Connectivity Devices and Security. At the end of this course students are prepared to take the CompTIA Network+ certification examination. (Special Fee: $66.00).

CTS 1142C. INFORMATION TECHNOLOGY PROJECT MANAGEMENT.	3	2	1

INFORMATION TECHNOLOGY PROJECT MANAGEMENT Pre-requisite: CGS 2100C This course will enable the student to use a variety of project management techniques that can be applied in an information technology project context. The student will gain knowledge in the areas of integration management, scope management, time management, cost management, and quality management, which will serve as a foundation for an information technology project management position. This course maps to the objectives of CompTIA's Project+ certification and the Project Management Institute's Project Management Professional certification exams. (Special Fee: $66.00).

CTS 1155C. INTRODUCTION TO CUSTOMER SERVICE AND HELP DESK CONCEPTS.	3	2	1

INTRODUCTION TO CUSTOMER SERVICE AND HELP DESK CONCEPTS This course is designed to provide individuals interested in a technical customer support career with the knowledge and skills to be successful in that field. This course will introduce the business, technical, and interpersonal skills needed to provide customer support. Students will gain a better understanding of the various careers in the customer support industry and the knowledge and skill sets needed to enter and advance in those careers. (Special Fee: $66.00).

CTS 1163C. MICROSOFT WINDOWS 7.	3	2	2

MICROSOFT WINDOWS 7 Prerequisite: CET 2179C or CTS 1131C This course will enable the student to install and administer the Microsoft Windows 7 client operating system. The student will learn about the settings in which the client is installed, and administer it for various user environments. The student will create and configure user accounts, plan and manage permissions, and configure the operating system to use various network services. The student will also backup and restore system files, manage the update process, troubleshoot problems, and audit operating system activity. This course will prepare the student for the Microsoft Certified Technology Specialist (MCTS) 70-680 exam. (Special Fee: $66.00).

CTS 2144C. MOBILE DEVICE ESSENTIALS.	3	2	1

MOBILE DEVICE ESSENTIALS Prerequisite: CTS 1134C The course covers deployment, integration, support and management of mobile devices. It includes risk mitigation, by ensuring that proper security measures are maintained for devices and platforms. It also includes radio frequency concepts; device troubleshooting; security; and network infrastructure. Students will be prepared for the CompTIA Mobility+ certification exam. (Special Fee: $66.00).

CTS 2145C. CLOUD ESSENTIALS.	3	2	1

CLOUD ESSENTIALS Prerequisite: CTS 1134C The course covers cloud concepts and models; virtualization; cloud infrastructure; resource management; security; and systems management. It includes implementation, maintenance and delivery of cloud technologies and infrastructures while ensuring proper security measures are maintained to mitigate risks and threats. Students will be prepared for the CompTIA Cloud+ certification exam. (Special Fee: $66.00).

CTS 2317C. ADVANCED NETWORK SECURITY.	3	2	1

ADVANCED NETWORK SECURITY Prerequisite: CIS 1354 or CTS 1120C This course covers Network Defense and Countermeasures and the fundamentals of defending networks, such as the layered defense and defense in depth strategies. The course demonstrates the use of firewalls, ISA servers, VPNs, and IDS. The course also develops and examines risk analysis and security policies to help build a secure network. The course deals with both Windows and Linux Operating Systems. The objective of this course is mapped to the Security Certified Network Professional, Network and Defense Countermeasures exam (Special Fee: $66.00).

CTS 2321C. LINUX SYSTEM ADMINISTRATION.	3	2	1

LINUX SYSTEM ADMINISTRATION Prerequisite: COP 2341C This course on the Linux operating system covers the topics required for the Comp TIA Linux + Certification Exam. It builds on concepts of the LINUX operating system covered in COP 2341. Topics include planning a Linux implementation, installation, configuration, administration, system maintenance, troubleshooting, and system hardware.

CTS 2322C. RED HAT ENTERPRISE LINUX.	2	2	1

RED HAT ENTERPRISE LINUX Prerequisite: CET 2660C The course focuses on the key tasks needed to become a full time Linux administrator. The curriculum examines Enterprise Linux functions including working with file systems and disk partitioning, logical volume creation, SELinux (security enhanced Linux), various firewall implementations, and Red Hat Linux Enterprise troubleshooting. The course labs are delivered using comprehensive, hands-on training that examines and solves real world problems. (Special Fee $53.00).

CTS 2433C. SQL SERVER DATABASE AND IMPLEMENTATION.   3   2   1

SQL SERVER DATABASE AND IMPLEMENTATION Prerequisites: CGS 2545C or Departmental approval This course teaches the student how to develop a logical data model, how to create databases, database files, and objects; space management and growth strategies. The student will use Transact SQL and Data Transformation Services to manipulate data and extract data in XML format. Programming business logic using stored procedures, transactions, triggers, user-defined functions and views also are covered. The student will learn to optimize database performance by using SQL Profiler and the Index Tuning Wizard. Security management will be covered from the viewpoint of data access, object-level security and application rolls. (Special Fee: $66.00).

CTS 3700. DATA CENTER OPERATIONS ESSENTIALS.   3   3   0

DATA CENTER OPERATIONS ESSENTIALS Prerequisite: Minimum grades of C in CIS 3080 and CIS 3083C. Data Center Operations Essentials is designed to help students develop technical expertise in the full range of data center operations. Students will Identify the roles, tools, and processes that are used to manage a data center. In addition, students will describe data center monitoring and management tasks, safety considerations for a data center and regulations that apply to a data center.