COMPUTER SYSTEMS TECHNOLOGY (CST)

CST 1111 Computer Hardware (4 Credits)
Laboratory-based course emphasizing computer architecture and related components. Analyzing and troubleshooting the relationships between the operating system, computer hardware, and peripheral devices.
Previous: Legacy Equivalent(s): CST*140, CST*141, CST*149, CST*239, CST*240

CST 1121 Networking I (3 Credits)
An introduction to the fundamentals of data communications, telecommunications, and networking. This course provides a general overview of computer networks by focusing on the terminology and technology in current networking environments including OSI (Open Systems Interconnect model), LAN (Local Area Network) architecture, client/server model, network operating systems, system architectures, Internet, and telecommunications.

CST 1141 Linux System Administration (4 Credits)
Introduction to network fundamentals, Linux, and Python programming as well as techniques and skills for network administration, data collection, and analysis. Cyber Security and Network Security topics are also woven into the various topics.
Previous: Legacy Equivalent(s): CST264, CST*266

CST 1221 Networking I (4 Credits)
An introduction to the fundamentals of data communications, telecommunications, and networking. This course provides a general overview of computer networks by focusing on the terminology and technology in current networking environments including OSI (Open Systems Interconnect model), LAN (Local Area Network) architecture, client/server model, network operating systems, system architectures, Internet, and telecommunications.
Previous: Legacy Equivalent(s): CT State: CST 1121 Legacy colleges: CST* 130, CST* 131, CST* 133, CST* 170, CST* 171, CST* 176, CST* 180, CST* 193, CST* 231, CST* 232, CST* 234

CST 2122 Networking II (3 Credits)
Introduction to the OSI model concentrating on the network, data link and physical layers. Emphasis on IP addressing (IPv4 and IPv6), Ethernet technologies and copper and fiber optic cabling.
Prerequisites: CST 1121 or instructor permission

CST 2123 Networking III (3 Credits)
This course will cover the theory and implementation of routing and switching protocols. Covered topics include VLANS and trunks, troubleshooting and security.
Prerequisites: CST 2122 or instructor permission

CST 2124 Voice over IP Networking (3 Credits)
The course covers the engineering of voice and data networks. Students will learn about the technical and business aspects of data and voice communication, and emphasis will be on the latest telecommunication technologies and their applications in business. Students will gain a comprehensive understanding of how Voice over Internet Protocol (VoIP) systems are designed and built.
Prerequisites: CST 1221 - Networking I or instructor permission (the former course, CST 1121 Networking I - 3 credits, will also fulfill this prerequisite)
Previous: Legacy Equivalent(s): CST* 228

CST 2125 Protocol Analysis (3 Credits)
This is an advanced course intended for networking professionals and students who already grasp the general concept of data communications and networking but would like a more detailed understanding of the processes and protocols used in today's networks. Network architectures will be discussed from an OSI model perspective of the networking protocol stack. Protocol analyzers will be used to perform a detailed analysis of networking protocols.
Prerequisites: CST 1221 - Networking I or instructor permission (the former course, CST 1121 Networking I - 3 credits, will also fulfill this prerequisite)
Previous: Legacy Equivalent(s): CST* 196

CST 2142 Windows Server Administration (4 Credits)
An understanding of network operating systems, including file systems, security, hardware, maintenance, and troubleshooting methodologies. Increased confidence in the use of computer hardware, network operating systems, management software and networks. Exposure to many of the various aspects of systems management from multiple perspectives.
Prerequisites: CST 1221 - Networking I or instructor permission (the former course, CST 1121 Networking I - 3 credits, will also fulfill this prerequisite)
Previous: Legacy Equivalent(s): CST* 127, CST* 163, CST* 171, CST* 184, CST* 235, CST* 236, CST* 238, CST* 164

CST 2161 Virtualization and Cloud Computing (3 Credits)
This course introduces students to the VMware vSphere foundational skills needed to create, deploy, clone, configure, manage, troubleshoot and migrate VMware vSphere virtual machine environments. Students will learn to deploy, configure and troubleshoot VMware ESXi vCenter and VMware Server Appliances. This course begins to prepare students for the VMware Certified Associate industry certification.
Prerequisites: CST 1221 - Networking I or instructor permission (the former course, CST 1121 Networking I - 3 credits, will also fulfill this prerequisite)
Previous: Legacy Equivalent(s): CST* 262

CST 2222 Networking II (4 Credits)
Introduction to the OSI model concentrating on the network, data link, and physical layers. Emphasis on IP addressing (IPv4 & IPv6), Ethernet technologies and copper and fiber optic cabling.
Prerequisites: CST 1221 - Networking I or instructor permission (the former course, CST 1121 Networking I - 3 credits, will also fulfill this prerequisite)
Previous: Legacy Equivalent(s): CT State: CST 2122 Networking II Legacy Colleges:CST* 132, CST* 181, CST* 188, CST* 229, CST* 230, CST* 261, CST* 281, CST* 231

CST 2223 Networking III (4 Credits)
This course will cover the theory and implementation of routing and switching protocols. Covered topics include VLANS and trunks, troubleshooting and security.
Prerequisites: CST 2222 - Networking II or instructor permission (the former course, CST 2122 Networking II - 3 credits, will also fulfill this prerequisite)
Previous: Legacy Equivalent(s): CTState: CST 2123 Legacy Colleges:CST* 182, CST* 183, CST* 282, CST* 283, CST* 229