

CNST CERTIFICATE TRACKING WORKSHEET

NAME _____ STUDENT ID _____

Computer Networking and Security Technology

Network Technician
Certificate of Completion
Tech Prep
2007 Catalog Year

Texas State Technical College – Harlingen’s Computer Networking and Security Technology department is a Tech Prep program participant. High School students may receive college credit for approved courses taken during high school.

Course #	Course Title	Sem Credit Hours	Sem Taken	Grade	College (If not TSTC)
	Take each of these core technical courses:				
CPMT 1303	Introduction to Computer Technology†	3			
ITNW 1325	Fundamentals of Networking Technologies†+	3			
ITSC 1309	Integrated Software Applications I†	3			
CPMT 1304	Microcomputer System Software†	3			
ITSE 1331	Intro to Visual Basic	3			
	Take each of these CNST courses:				
ITNW 1354	Implementing & Supporting Servers+	3			
ITNW 2309	Network Administration for Intranet+	3			
ITNW 2321	Networking with TCP/IP+	3			
ITNW 2354	Internet/Intranet Server+	3			
ITSY 1342	Information Technology Security+	3			
ITNW 2313	Network Hardware+	3			
	Take each of these academic courses:				
PSYT 1313	Frameworks for Learning: Psychology of Personal Adjustment+	3			
SPCR 1301	Communication Skills	3			
TECM 1303	Technical Math	3			

† High school articulated course

Capstone course

‡ Course with external learning experience

+ Prerequisites: See Course Descriptions.

Final approval of degree plan for graduation is provided by the Admissions Office. Application for graduation must be on file in the Admissions Office before the published deadline of the student’s final semester. The TSTC Catalog contains important information about graduation.

CNST COURSE DESCRIPTIONS

ITNW 1325 FUNDAMENTALS OF NETWORKING TECHNOLOGY (2-4-3). Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. Prerequisite: None

ITNW 1354 IMPLEMENTING & SUPPORTING SERVERS (2-4-3). A course in the development of skills necessary to implement, administer, and troubleshoot information systems that incorporate Windows Based Servers in a networked computing environment. Prerequisite: None

CPMT 1303 INTRODUCTION TO COMPUTER TECHNOLOGY (2-4-3). A fundamental computer course that provides in-depth explanation of the procedures to utilize hardware and software. Emphasis on terminology, acronyms, and hands-on activities. Prerequisite: None

ITNW 2309 NETWORK ADMINISTRATION/ INTRANET (2-4-3). Perform the role of network administrator or system manager in an Intranet network. Prerequisite: ITNW 1325

ITSC 1309 INTEGRATED SOFTWARE APPLICATIONS (2-2-3). Integration of applications from popular business productivity software suites. Instruction in embedding data, linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software. Prerequisite: Keyboarding proficiency

CPMT 1304 MICROCOMPUTER SYSTEM SOFTWARE (2-4-3). Skill development in the installation, configuration, maintenance and troubleshooting of system software in microcomputers. Topics may include operating systems, utility software and other software affecting the basic operation of a microcomputer system. Prerequisite: None

ITSE 1331 VISUAL BASIC (2-4-3). Introduction to computer programming using Visual BASIC. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Prerequisite: None

ITNW 2321 NETWORKING WITH TCP/IP (2-4-3). Preparation to set up, configure, use, and support Transmission Control Protocol/Internet Protocol (TCP/IP) on networking operating systems. Prerequisite: Co-requisite: ITNW 1325

ITNW 2313 NETWORKING HARDWARE (2-4-3). Maintain network hardware devices. Topics include network cables, servers, and workstations; network connectivity devices such as routers, hubs, bridges, gateways, repeaters, and uninterruptible power supplies; and other networking hardware devices. Prerequisite: ITNW 2321

ITNW 2354 INTERNET/INTRANET SERVER (2-4-3). Installing, configuring, maintaining, and managing an Internet server. Prerequisite: ITNW 1325

ITSY 1342 INFORMATION TECHNOLOGY SECURITY (2-4-3). Instruction in security for network hardware, software, and data including physical security, backup procedures, firewalls, encryption, and protection from viruses. Prerequisite: ITNW 2321

PSYT 1313 FRAMEWORKS FOR LEARNING: PSYCHOLOGY OF PERSONAL ADJUSTMENT (2-2-3). Development of personal, social, and work adjustment skills. Prerequisite: None.

SPCR 1301 - Communication Skills for the T (2-2-3). A study of communication skills needed for the industrial trades. Prerequisites: None

TECM 1303 - TECHNICAL MATH (3-0-3). A review of mathematical functions including fractions, decimals, proportions, perimeters, areas, volumes of geometric figures, and certain algebraic/trigonometric functions, as required by specific businesses and industries for successful on-the-job performance. Prerequisites: None

Last Updated: June 24, 2008