

NORMA COLUNGA-HERNANDEZ

Computer Networking and Security Technology

Associate Professor

1902 N. Loop 499, Harlingen, TX 78550

George Young Engineering Technology Building

Office Phone: 956-364-4774

Email: norma.colunga@harlingen.tstc.edu

EDUCATION:

- M.S. Information Systems, Western International University, Phoenix, AZ
- B.S. Electrical Engineering, Texas A& I University, Kingsville, TX
- Associate in Arts, Texas Southmost College, Brownsville, TX
- Certificate - Quality & Reliability Engineering, School of Engineering & Logistics, Red River Army Depot, Texarkana, TX
- Certificate - Certified Public Manager, Supervisory Manager Program, Cochise College, Sierra Vista, AZ

PROFESSIONAL CERTIFICATIONS:

- CompTIA Network +
- CompTIA Security+
- GIAC Certified Forensic Examiner (GCFE)
- GIAC Information Security Professional (GISP)
- Information System Security Professional (INFOSEC)

PROFESSIONAL QUALIFICATIONS:

09/2000 Texas State Technical College, Harlingen, Texas

- Present

Faculty Member/Associate Professor for the Computer Networking and Security Technology (CNST) Program at TSTC. Duties include developing and maintaining current syllabus and overall course structure/ materials for assigned courses; preparing and maintaining course online Learning Management System content; maintaining course records related to student attendance, progress and evaluations; enforcing approved departmental rules and regulations in the classroom and lab; providing out of class tutoring to students as required; assisting in student-related organizational activities; and participating in recruiting/ advising of students. Student Club Advisor for CNST Program.

Served as Department Chair (8/2013-9/2016): In addition to being an active member of the faculty for the department, responsible for department operations and managerial tasks, to include ensuring the work of the department is on track with class scheduling, room utilization, faculty productivity loads, and that inventory is being maintained at required levels. Developing and articulating departmental goals; evaluation of departmental faculty/staff.

Served as Assistant Department Chair (01/2006 – 08/2010): Assisted with recruiting/advising students; representing/promoting the college/department at college, community, functions/meetings; promoting and implementing TSTC initiatives; providing recommendations to Department Chair and performing special tasks/duties as assigned.

INDUSTRY WORK EXPERIENCE:

7/1988 - White Sands Missile Range (WSMR)-Electronic Proving Ground, Ft. Huachuca, AZ

8/2000

Served as Electronic Test Project Engineer on a variety of Department of the Army Communications-Electronic Systems 'digitization' Projects. Served as Team Leader for RAM and SW Instrumentation Development team, Chief of Network Operations (LAN, Help Desk, Database Development) Teams.

PUBLICATIONS: N/A

PROFESSIONAL MEMBERSHIPS: N/A

COURSES TAUGHT/APPROVED TO TEACH:

ITNW 2350	Enterprise Networks. <i>Departmental Capstone Course</i> . A case study in Convergence Technologies requiring a network engineer to study a problem and design a network solution for an enterprise network. – <i>Project Based</i>
ITNW 2313/12	Networking Hardware. Maintain network hardware devices. Topics include network cables, servers, and workstations, and network connectivity devices such as routers, hubs, switches.
ITSY 2301	Firewalls & Network Security. Identify elements of firewall design, types of security and responses to security attacks. Use best practices to design, implement, and monitor a secure network.
ITSY 2359	Security Assessment & Auditing. Monitor, audit, analyze, and revise computer and network security systems to ensure appropriate levels of protection are in place.
ITNW 2321	Networking with TCP/IP. Preparation to set up, configure, use, and support Transmission Control Protocol/Internet Protocol (TCP/IP) on networking operating systems.
ITNW 2354	Internet/Intranet Server. Installing, configuring, maintaining, and managing an Internet (Linux) server.
ITNW 1354	Implementing & Supporting Servers. Instruction on implementing, administering, and troubleshooting information systems that incorporate Windows-based Servers in a networked computing environment.
ITNW 2359	Web Server Support & Maintenance. Instruction in the installation, configuration, and implementation of web servers.
ITNW 1325	Fund of Networking Technologies. Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.
COSC 1301	Microcomputer Applications. An overview of computer information systems. Introduces computer hardware, software, procedures, systems, and human resources and explores their integration and application in business and other segments in society.
ITSW 1307	Intro to Database. An introduction to database theory and the practical applications of a database.
ITSW 2337	Advanced Database. Designed to provide an understanding of advanced functionality of databases.
ITSC 1309	Integrated Software Applications. 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.
ITSC 1325	Intro to PC Operating Systems. A study of current personal computer hardware including personal computer assembly and upgrading, setup and configuration, and troubleshooting.
ITNW 1337	Introduction to Internet. Introduction to the Internet, with emphasis on using the World Wide Web to locate, transfer, and publish information. Survey of emerging technologies on the Internet.