CPTR2236 - Network Security

Credits:	3 (2/1/0)
Description:	This course deals with the understanding of basic network security. Students learn how to manage systems to guard against various security threats.
Prerequisites:	
Corequisites:	
Pre/Corequisites [*] :	• CPTR2272
Competencies:	 Identify network security threats. Administer encryption and authentication for wireless networks. Examine protecting advanced communications. Identify web-related threats. Perform network hardening. Examine e-mail threats. Configure VPNs for secure sessions. Analyze remote access security and social engineering threats. Identify software exploits. Examine major types of attacks on information systems. Identify the factors in a secure network strategy. Practice securing web communications utilizing SSL/TLS. Examine cryptography. Apply IPSec policies. Explore basic computer forensics methods. Plan a patch management strategy for network servers. Analyze the role of firewalls, routers and switches in security. Examine intrusion detection systems.
MnTC goal areas:	None

*Can be taking as a Prerequisite or Corequisite.