

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*:	<ul style="list-style-type: none">• CPTR2272
Competencies:	<ol style="list-style-type: none">1. Identify network security threats.2. Administer encryption and authentication for wireless networks.3. Examine protecting advanced communications.4. Identify web-related threats.5. Perform network hardening.6. Examine e-mail threats.7. Configure VPNs for secure sessions.8. Analyze remote access security and social engineering threats.9. Identify software exploits.10. Examine major types of attacks on information systems.11. Identify the factors in a secure network strategy.12. Practice securing web communications utilizing SSL/TLS.13. Examine cryptography.14. Apply IPSec policies.15. Explore basic computer forensics methods.16. Plan a patch management strategy for network servers.17. Analyze the role of firewalls, routers and switches in security.18. Examine intrusion detection systems.
MnTC goal areas:	None

*Can be taking as a Prerequisite or Corequisite.