

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

\*Can be taking as a Prerequisite or Corequisite.