

## CPTR1108 - CISCO 1

Credits:	3 (1/2/0)
Description:	This is an introduction to networks course that covers the architecture, structure, functions and components of the Internet and other computer networks. Students achieve a basic understanding of how networks operate while building simple local area networks (LANs). Students perform basic configurations for routers and switches and implement Internet Protocol.
Prerequisites:	
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"><li>1. Explain how physical and data link layer protocols support the operation of Ethernet in a switched network.</li><li>2. Explain how the upper layers of the Open Standards Interconnect (OSI) model support network applications.</li><li>3. Configure switches and end devices to provide access to local and remote network resources.</li><li>4. Configure routers to enable end-to-end connectivity between remote devices.</li><li>5. Explain Internet Protocol addressing and subnetting.</li><li>6. Create Internet Protocol version 4 and Internet Protocol version 6 addressing schemes and verify network connectivity between devices.</li><li>7. Configure a small network with security best practices.</li><li>8. Troubleshoot connectivity in a small network.</li></ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.