COURSE COMPETENCIES

CTS 222 Security Fundamentals

I. Upon completion of this course, successful students will (be able to):

1. Identify security risks and requirements and define security baselines.

2. Plan an authentication strategy.

3. Control access to resources.

4. Provide secure connections for users of remote access services, VPNs, extranets, or the Internet.

5. Develop a data encryption scheme and management strategy.

6. Design security for network services: DNS, Remote Installation Services (RIS), SNMP, and Terminal

Services.

7. Use network testing tools to determine weaknesses in their own networks.

**II. Core topics of this course**

1. Internet Security
2. Viruses/malware and SPAM and how to prevent them
3. Network performance testing tools
4. Password security
5. Security testing and penetration