A. COURSE DESCRIPTION

Credits: 4
Lecture Hours/Week: 3
Lab Hours/Week: 1
OJT Hours/Week: *.*

Prerequisites:
CVNP 2633 - Information Assurance I (Number of Years Valid: 5) AND CVNP 2613 - Network Security I (Number of Years Valid: 5)

Corequisites: None

MnTC Goals: None

This course is designed to present a more advanced exposure to computer security for all users, from business professionals to students, to home users. As computers and networks come under constant attacks today by hackers, computer security has become critical for all computer users. This course provides a hands-on approach to computer and network security through discussion and a wide variety of tools used in the cyber-security field. Prerequisite: CVNP2613 Network Security I or CVNP 2633 Information Assurance.

B. COURSE EFFECTIVE DATES: 08/22/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Role of people in security
2. Cryptography
3. Public Key Infrastructure (PKI)
4. Infrastructure security
5. Authentication and remote access
6. Wireless security and mobile devices
7. Intrusion Detection Systems (IDS) and network security
8. Secure software development
9. Types of attacks and malicious software
10. Web components
11. Risk management
12. Incident response

D. LEARNING OUTCOMES (General)

1. The learner will explore the technologies used and principles involved in creating a secure computer networking environment.
2. The learner will understand authentication, the types of attacks and malicious code that may be used against a network, the threats and countermeasures for e-mail, Web applications, remote access, and file and print services.
3. The learner will understand intrusion detection systems, firewalls, and physical security concepts and will understand the daily tasks involved with managing and troubleshooting those technologies.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None
F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted