A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: *.*
Lab Hours/Week: *.*
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

This course examines the issues surrounding computer security in today's highly technological world. The course is designed to provide an overview of security problems, technical issues and the principles associated with databases, networks, network defense, administrative controls, privacy, operating systems, and programming. The knowledge gained from this course will allow programmers, instructional designers, information technology specialists, and managers to better understand various issues surrounding secure computing. Proficiency in computer skills is strongly recommended.

B. COURSE EFFECTIVE DATES: 01/10/2011 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Illustrate the broad view of Computer Security as information security. (ELO 2a)
2. Analyze the types of attacks that can occur and summarize the limitations of security tooling in response to detections. (ELOs 2a, 4a, 4d)
3. Identify gaps in network architecture to attain defense in depth. (ELOs 4a, 4d)
4. Develop a personal computing security plan using current industry standards and personal network threat assessment and discuss remaining vulnerability risks. (ELOs 2a, 4a, 4d)
5. Classify the people issues and effects, from a business and technical standpoint, surrounding Computer Security in various organizations. (ELOs 4a, 4d)
6. Interpret legal and ethical issues in computer security cases. (ELO 2a)
7. Examine elementary cryptography. (ELOs 4a, 4d)
8. Distinguish the nature of attacks and their economic impact. (ELO 2a)
9. Analyze cases to determine solutions for secure systems management. (ELOs 2a, 4a, 4d)

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted