NWAT 2681: Fundamentals of Security

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 2
Lab Hours/Week: 2
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

As organizations accelerate their interest in network business solutions, they need qualified professionals who possess the skills necessary to ensure the security of all network-based transactions. This course will provide training to improve the student's skills and knowledge in three key areas of network security: firewalls, intrusion detection systems, and virtual private networks. Practical hands-on projects will guide the student through implementing hardware, software, network, Internet and data security configurations. (Prerequisite or concurrent: NWAT1641) (3 credits: 2 lecture/1 lab)

B. COURSE EFFECTIVE DATES: 01/05/2005 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
D. LEARNING OUTCOMES (General)
45. Define symmetric encryption
46. Describe asymmetric encryption
47. Identify various uses of cryptography
48. Display troubleshooting techniques
49. Display safe work habits
50. Explain using and managing keys
51. Identify PKI
52. Identify security recovery
53. Describe computer forensics
54. Describe risk assessment
55. Explain risk management
56. Identify key elements in an ethics policy
57. Explain an ethics policy

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted