

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. CST

COURSE NUMBER: 1200

NUMBER OF CREDITS: 4

Lecture: 2 Lab: 2 OJT 0

Course Title:

Introduction to Information Security

Catalog Description:

Introduction to Information Security introduces the basics of computer security with integrated hands-on labs. The course prepares students to effectively protect information assets by identifying security threats, vulnerabilities, and their countermeasures. Topics include broad range of today's security challenges, common security threats and countermeasures. This course covers most of the objectives in the CompTIA Security+ exam

Prerequisites or Necessary Entry Skills/Knowledge:

None

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered (General)

Security Basics

Physical security

Network Defenses

Wireless Network Security

Vulnerability Assessments

Host Security

Cryptography

Application security

Data Security

Student Learning Outcomes

Explain computer and information security issues using technical vocabulary.

Familiar with example technologies employed to provide security controls over information and computing resources in processing and communications.

Skillful in using products on the market being used to provide asset protection of these resources.

Understand the basic concepts of computer security, its basic technological characteristics, and technical implementations

Describe basic security vulnerabilities and controls, including hardware, software, application security and network security.

Is this course part of a transfer pathway: Yes No

**If yes, please list the competencies below*

Revised Date: 10/28/2023