## Course Outline

**DEPT.** CST  | **COURSE NUMBER:** 1200

**NUMBER OF CREDITS:** 3  | **Lecture:** 2  | **Lab:** 1  | **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)

1. Security Basics
2. Physical security
3. Network Defenses
4. Wireless Network Security
5. Vulnerability Assessments
6. Host Security
7. Cryptography
8. Application security
9. Data Security

### Student Learning Outcomes

1. Explain computer and information security issues using technical vocabulary.
2. Familiar with example technologies employed to provide security controls over information and computing resources in processing and communications.
3. Skillful in using products on the market being used to provide asset protection of these resources.
4. Understand the basic concepts of computer security, its basic technological characteristics, and technical implementations.
5. Describe basic security vulnerabilities and controls, including hardware, software, application security and network security

### Is this course part of a transfer pathway: 

*If yes, please list the competencies below*

Revised Date: 04/2021