

Inver Hills Community College

ITC 1200: Cybersecurity Essentials

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:
None

Corequisites: None

MnTC Goals: None

Explores the characteristics and tactics used by cyber criminals as well as the technologies, products, and procedures used to combat cybercrime. The curriculum also allows the exploration of the cybersecurity field, how it relates to information and network security, and introduces students to the characteristics of common attacks and security principles.

Course Note: The prerequisite for this course will be waived upon proof of passing a digital literacy placement test, contact instructor for details.

B. COURSE EFFECTIVE DATES: 08/25/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Characteristics of criminals and cybersecurity professionals (12.5%)
2. Security principles of confidentiality, integrity, and availability (12.5%)
3. Tactics, techniques and procedures used by cyber criminals (12.5%)
4. Technologies, products and procedures used to protect confidentiality (12.5%)
5. Technologies, products and procedures used to ensure integrity of data (12.5%)
6. Technologies, products and procedures used to provide availability (12.5%)
7. Technologies, products and procedures used to defend network components (12.5%)
8. Laws and ethics related to cybersecurity (12.5%)

D. LEARNING OUTCOMES (General)

1. Describe the characteristics of criminals and professionals in the cybersecurity realm.
2. Describe the principles of confidentiality, integrity, and availability as they relate to data states and cybersecurity countermeasures.
3. Describe the tactics, techniques and procedures used by cyber criminals.
4. Describe how technologies, products and procedures are used to protect confidentiality.
5. Describe how technologies, products and procedures are used to ensure integrity.
6. Describe how technologies, products, and procedures provide high availability.
7. Explain how cybersecurity professionals use technologies, processes and procedures to defend all components of the network.
8. Explain the purpose of laws related to cybersecurity.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted