MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT. CST   **COURSE NUMBER: 1220**

NUMBER OF CREDITS: 3   **Lecture: 3   Lab: 0   OJT 0**

Course Title:
Cybersecurity

Catalog Description:
Cybersecurity aims to provide students with a comprehensive understanding of the managerial aspects of cybersecurity. It delves into the ethical, legal, and professional dimensions of cybersecurity issues, helping students assess, identify, and proactively manage security risks. The curriculum covers secure network design, disaster recovery planning, the development of cybersecurity policies, and the implementation of secure employment practices. This course is part of a series designed to equip students with the knowledge and skills needed to comprehend, lead, and implement cybersecurity strategies. It also serves as a preparation for various cybersecurity certifications, ensuring students are well-prepared for careers in the field of cybersecurity.

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)
The need for information security
Computer and network threats and risk
Security Policies and Procedures
An information security plan
Risk management

Disaster plans and recovery
Security implementation

Student Learning Outcomes
Identify components of a secure network.
Identify types of viruses and security breaches.
Identify types and uses of security devices.
Detect security breaches.
Describe the recovery information systems.
Create a blueprint for a secure network environment.
Describe security and authentication protocols.

Is this course part of a transfer pathway: Yes   ☐   No   ☒
*If yes, please list the competencies below

Revised Date: 10/29/2023