Course Title: Virtual Computing

Catalog Description:
Virtual Computing is a hands-on course that introduces virtual technologies used in an enterprise network environment. This course includes virtualization and storage management concepts using VMWare server virtualization products. Students will install and configure a network in a virtual environment, including applications and desktop virtualization. By learning basic deployments, upgrades, virtual workloads, advanced network architectures, multitenant clouds, and back up and disaster recovery. Students will be prepared to work in a virtual technology environment.

Prerequisites or Necessary Entry Skills/Knowledge:
CST 1190 Introduction to Networking

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. Virtualization software definition and types
2. Uses of Virtualization software
3. Virtual applications and environments

Student Learning Outcomes

1. Identify the cause and cost of network downtime.
2. Describe SAN technology.
3. Describe server virtualization.
4. Analyze active and passive server clustering.
5. Evaluate concepts for cloud computing.
6. Implement server virtualization.

Is this course part of a transfer pathway: Yes ☐ No ☒

*If yes, please list the competencies below

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