Course Title: CyberOps

Catalog Description:
CyberOps covers knowledge and skills needed to successfully handle the tasks, duties, and responsibilities of an associate-level Cybersecurity Analyst working in a Security Operations Center (SOC). This course aligns with the Cisco Certified CyberOps Associate (CBROPS) certification. Candidates need to pass the 200-201 CBROPS exam to achieve the Cisco Certified CyberOps Associate certification. Taking certification is not mandatory requirement for this course. The CBROPS exam tests a candidate’s knowledge and skills related to security concepts, security monitoring, host-based analysis, network intrusion analysis, and security policies and procedures.

Prerequisites or Necessary Entry Skills/Knowledge:
CST 1200.

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
- Security Concepts
- Security monitoring
- Host-based analysis
- Network Intrusion Analysis
- Security policies and procedures
## Student Learning Outcomes

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Description</th>
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<tbody>
<tr>
<td>Install virtual machines to create a safe environment for implements and analyzing cybersecurity threat events.</td>
<td>Explain the role of Cybersecurity Operations Analyst in the enterprise.</td>
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<tr>
<td>Analyze the operation of network protocols and services.</td>
<td>Explain network intrusion data to identify compromised hosts.</td>
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<td>Classify the various types of network attacks.</td>
<td>Apply incident response models to manage network security incidents.</td>
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<tr>
<td>Explain how to investigate endpoint vulnerabilities and attacks.</td>
<td>An analyze network intrusion data to identify compromised hosts.</td>
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*If yes, please list the competencies below*

Revised Date: 4/14/2022