



Assessment Report

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information:		
<u>2019-2020</u>	<u>Hyekyung Clark</u>	<u>hyeclark@cnm.edu</u>
Academic Year	Contact Person	Email

Name of Program:	Courses:
CIS Cyber Security Certificate	CIS 1250 CIS 1680 CIS 1858 CIS 2670 CIS 2853 CIS 2857 CIS 2860

PART 2: PROGRAM SUMMARY

<p>Provide a high-level review of the program to include highlights, successes, challenges, significant changes, and significant resources needed to support the program.</p> <p>CIS-Cyber security AAS and Certificate of Completion has been offered since 2018-2020 catalog. Since then, more and more students have been declaring the major.</p> <p>In August 2017, CNM received the prestigious designation of National Center of Academic Excellence in Cyber Defense Two-Year Education (CAE2Y). Cyber Security pathway has been developed with National Institution of Cybersecurity Education (NICE) and upcoming year CAE2Y application will introduce CIS Cyber Security AAS and Certificate programs.</p>

Part 3: DATA REVIEW

Program Data (Each Review Year is defined as Summer, Fall, and Spring terms)	Review Year 19-20	Review Year 18-19	Review Year 17-18
Annual number of graduate awards is greater than 10	11	1	0
Number of declared majors	62	25	0
Average class size	20	24	20
Annual Average class retention rate is 70% or above (SAGE 65%)	81%	87%	86%
Annual C-Pass rate for coursework is 60% or above	65%	70%	69%
Average class fill rate at 60% or above capacity within a term or over a year	68%	77%	67%
Transfer numbers/percent	NA	0 (0%)	0 (0%)
Full-time to part-time faculty ratio	36: 4	18: 14	13: 10

Summarize how your program met or did not meet the target measures based on the data above.

Total declared majors 62/25/0 since 2018-2020 catalog. Although upper-level courses have been challenging to the students, overall class retention rates are promising.

Fill rate was exceeded.
Annual retention rate was exceeded.
Annual C-Pass rate was exceeded.

Part 4: PROGRAM LEARNING OUTCOME ANALYSIS.

Learning Outcome	Population or Course(s) Assessed	Assessment Methods	Summary of Assessment Results
1. Create a threat model for a given scenario, identifying assets, threats, and mitigations	CIS 1858, and CIS 2670.	Final Exam, Class project, Certification exam, and In-class writing assignment.	met over 78%
2. Apply principles of secure system design to host and network security scenarios	CIS 2670, and CIS 2853.	Final Exam, Test or quiz, Class project, In-class activities, and Certification exam.	met over 59%
3. Use derived requirements such as authentication and access control to secure systems and networks	CIS 2857.	Test or quiz, Class project, and In-class activities.	met over 62%
4. Perform forensic analysis of systems and create a report of results	CIS 2860.	Test or quiz, Class project, and In-class activities.	met over 62%

Interpretation of Assessment findings
This area also assessed in CIS 1680 Linux: overall TestOut LinuxPro certification passing rate is 70.07% CNM compared to 58.33% NM colleges and 40.26% US colleges. Cyber security course curriculum is a bit more demanding once students reach to upper-level courses as well as taking CompTIA Security+ certification exam. Faculty will work hard to prepare students to be local Cyber security workforce.

Part 6: ADDITIONAL ACTION PLAN IN SUPPORT OF STUDENT LEARNING (IF APPROPRIATE)

Upcoming year	Changes planned for the upcoming year	Data motivating this change
2020-2021	N/A	N/A
2020-2021		
2020-2021		

Please Select all the following that characterize the types of changes described in the above action plan:

- Assessment criteria revision Assessment methodology revision Assignment revision
- Budgetary reallocation Change in teaching approach Course content revision
- Curricular Revision Faculty training/development Process revision

Part 6: COMMENTS

Use this section to record any comments, notes, or questions from individuals who reviewed this report.
School Dean:

SAAC Representative: