



# Assessment Report

## PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information:		
2019-2020	Sandy Wilson	swilson97@cnm.edu
<b>Academic Year</b>	<b>Contact Person</b>	<b>Email</b>

Name of Program:	Courses:						
CIS Network Administration Cert	CIS 1410	CIS 1425	CIS 1605	CIS 1610	CIS 1680	CIS 2421	CIS 2424
	CIS 2426	CIS 2427	CIS 2450	CIS 2999			

## PART 2: PROGRAM SUMMARY

<p><b>Provide a high-level review of the program to include highlights, successes, challenges, significant changes, and significant resources needed to support the program.</b></p>
<p>For the 2019-2020 year, 11 students completed the Networking Capstone exam with an average score of 92.7.</p>

**Part 3: DATA REVIEW**

<b>Program Data</b> <b>(Each Review Year is defined as Summer, Fall, and Spring terms)</b>	<b>Review Year</b> <b>19-20</b>	<b>Review Year</b> <b>18-19</b>	<b>Review Year</b> <b>17-18</b>
Annual number of graduate awards is greater than 10	3	3	0
Number of declared majors	30	46	52
Average class size	18	20	21
Annual Average class retention rate is 70% or above (SAGE 65%)	81%	87%	89%
Annual C-Pass rate for coursework is 60% or above	63%	70%	75%
Average class fill rate at 60% or above capacity within a term or over a year	60%	66%	73%
Transfer numbers/percent	NA	1 (33%)	0 (0%)
Full-time to part-time faculty ratio	46: 12	45: 13	44: 17

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

Average class fill rate met.  
 Annual retention rate exceeded.  
 Annual C-pass rate exceeded.  
 Annual number of graduates' rate was not met due to change in industry certification which affected program enrollment.

**Part 4: PROGRAM LEARNING OUTCOME ANALYSIS.**

Learning Outcome	Population or Course(s) Assessed	Assessment Methods	Summary of Assessment Results
Demonstrate network mathematical literacy both in theory and application as it applies to networks.	CIS 2425	Practical exam.	100% of students tested were able to successfully demonstrate ability to subnet a network and apply to configuration of live network.
Demonstrate problem solving ability with data networks.	CIS 2425	Practical exam.	81% of students were able to troubleshoot issues after configuration of a network.
Demonstrate the practical application of skills needed to design, implement, and support network security.	CIS 2425	Practical exam.	100% of students were able to implement network security after configuration of a network.
Design, address, construct, and test LANs containing multiple VLANs as well as wireless devices.	CIS 2425	Practical exam.	91% successfully implemented VLANs after basic configuration of the network and appropriate network protocols.
Design, address, construct, and test WAN topologies selecting from current networking technologies.	CIS 2425	Practical exam.	91% of students successfully designed, implemented, and tested a network using appropriate utilities.

Learning Outcome	Population or Course(s) Assessed	Assessment Methods	Summary of Assessment Results
Develop a logical diagram and translate it to a physical implementation.	CIS 2425	Practical exam.	100% of students were able to develop network diagrams using appropriate software and apply to a physical network implementation.
Employ basic cabling and network designs to connect devices in accordance with stated objectives.	CIS 2425	Practical exam.	100% of students were able to successfully connect devices as presented in a network diagram.

Interpretation of Assessment findings
Overall, students were able to implement and test networks for issues after configuration. However, some students were unable to successfully determine some issues and therefore could not meet the threshold for problem solving and troubleshooting. This can be directly attributed to evaluation anxiety.

**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	Due to changes in industry certification with an increased focus on programming and cloud technology, it will be necessary to seek additional instructor training.	Additional instructor training is necessary due to industry certification changes.

Upcoming year	Changes planned for the upcoming year	Data motivating this change
2020-2021	Due to COVID-19, teaching methods will evolve to emphasize the use of online lab environments as a prime teaching tool with previous simulation software used as a supplement.	Changes are being made to accommodate move to all online courses.
2020-2021	Due to COVID-19, online lab environments will be used for assessment, therefore assessment criteria will be revised to support an online environment.	Changes are being made to accommodate move to all online courses.

**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**

<p><b>Use this section to record any comments, notes, or questions from individuals who reviewed this report.</b></p>
<p><b>School Dean:</b></p>
<p><b>SAAC Representative:</b></p>