

CNM ANNUAL STUDENT LEARNING ASSESSMENT REPORT

Due to the Student Academic Assessment Committee by October 15



PART 1: REPORT INFORMATION

Report Year and Contact Information			
<u>2018-2019</u> Academic Year	<u>Sandy Wilson</u> Contact Person	<u>Swilson97@cnm.edu</u> CNM Email	<u>53332</u> CNM Office Extension

Subject of this Report
BIT--CNETW_CERT--CIS Network Admin Certificate

PART 2: CONTEXT IN WHICH THE ASSESSMENT TOOK PLACE

Program/Area Highlights and Successes
(Wherever applicable, include course completion rates, job placement outcomes, and licensing examination pass rates. See the program information dashboard at https://livecnm.sharepoint.com/sites/Dashboards/SitePages/Program%20Information%20Dashboard.aspx (access restricted to CNM employees) and other reports at https://www.cnm.edu/depts/opie .)
For the 2018-2019 year, 14 students completed the Networking Capstone exam with an average score of 85.8.

Changes Implemented During the Past Year in Support of Student Learning
No changes were implemented.

PART 3: REPORT ON ASSESSMENT OF STUDENT LEARNING

Assessment Method	Type of Assessment Tool	Population or Course(s) Assessed	Graduate Learning Outcome(s) Assessed	Mastery Level (E.g., "Minimum score of 3 on a rubric scaled 0-4" or "Minimum score of 75%")	Targeted % Achieving Mastery	Outcome
Exam	Direct & Internal	CIS 1425	Student can use Network Protocol models to explain communication between devices on a data network	Minimum score of 70%	N/A	N/A
Capstone Project	Direct & Internal	CIS 2999	Student can cable and create networks in accordance with stated objectives	Minimum score of 70%	100%	Target met
Capstone Project	Direct & Internal	CIS 2999	Student can create a logical diagram and translate it to a physical implementation on a network.	Minimum score of 70%	100%	Target met
Capstone Project	Direct & Internal	CIS 2999	Student can design a network with mathematical literacy and effectively implement the design to create a functioning network.	Minimum score of 70%	100%	Target met
Capstone Project	Direct & Internal	CIS 2999	Student can create a LAN environment implementing VLANs and wireless devices.	Minimum score of 70%	78%	Target met
Capstone Project	Direct & Internal	CIS 2999	Student can create WAN environments implementing appropriate protocols for current networking technologies.	Minimum score of 70%	93%	Target met
Capstone Project	Direct & Internal	CIS 2999	Student can implement practical network security applications on the network.	Minimum score of 70%	N/A	Target not met

Capstone Project	Direct & Internal	CIS 2999	Student can problem solve and troubleshoot data networks	Minimum score of 70%	100%	Target met
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Summary of Assessment Findings
Program continues to achieve expected results. However, students with a significant time gap between completion of the last course in the degree and the capstone exam did not fare well. It may be in students' best interest to place a time cap on how long a student can wait to take the capstone exam. Industry standards will continue to guide the program.

Interpretation of Assessment Findings
Program continues to achieve expected results.

Action Plan in Support of Student Learning (Describe changes to be made that are based at least in part on the assessment interpretation. If the assessment did not yield useful information, describe changes to be made in the assessment methodology and/or criteria.)
For the 2019-2020 year, students will be required to keep a journal to reinforce topics.

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

- | | | |
|---|--|---|
| <input type="checkbox"/> Assessment criteria revision | <input type="checkbox"/> Assessment methodology revision | <input checked="" type="checkbox"/> Assignment revision |
| <input type="checkbox"/> Budgetary reallocation | <input type="checkbox"/> Change in teaching approach | <input type="checkbox"/> Course content revision |
| <input type="checkbox"/> Curricular Revision | <input type="checkbox"/> Faculty training/development | <input type="checkbox"/> Process revision |

Recommendations, Proposals, and/or Funding Requests	Budget Needed
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PART 4: REMAINING YEARS IN CURRENT ASSESSMENT CYCLE PLAN (including any revisions) – **OR -- UPCOMING ASSESSMENT CYCLE PLAN** (if this was the final year)

Years of Full Cycle	Next Year's Assessment Focus (Describe how the next planned assessment is expected to provide information that can be used toward improving student learning.)
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Graduate Learning Outcomes to Be Assessed	Years in which Assessment Is Planned	Population/Courses to Be Assessed	Planned Assessment Approach
Use network protocol models to explain the layers of communications in data networks.	2019-2020	CIS 1425	Exam
Employ basic cabling and network designs to connect devices in accordance with stated objectives.	2019-2020	CIS 2999	Exam
Develop a logical diagram and translate it to a physical implementation.	2019-2020	CIS 2999	Exam
Demonstrate network mathematical literacy both in theory and application as it applies to networks.	2019-2020	CIS 2999	Exam
Design, address, construct and test LANs containing multiple VLANs as well as wireless devices.	2019-2020	CIS 2999	Exam
Design, address, construct and test WAN topologies selecting from current networking technologies.	2019-2020	CIS 2999	Exam
Demonstrate the practical application of skills needed to design, implement, and support network security.	2019-2020	CIS 2999	Exam
Demonstrate problem solving ability with data networks.	2019-2020	CIS 2999	Exam
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