

# 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>2017-2018</u><br>Academic Year   | <u>Sandy Wilson</u><br>Contact Person | <u>swilson97@cnm.edu</u><br>CNM Email | <u>53332</u><br>CNM Office Extension |

  

| Subject of this Report                               |
|--|
| BIT--PDCISCO_CERT--CIS CISCO Post Degree 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 <a href="https://livecnm.sharepoint.com/sites/Dashboards/SitePages/Program%20Information%20Dashboard.aspx">https://livecnm.sharepoint.com/sites/Dashboards/SitePages/Program%20Information%20Dashboard.aspx</a> (access restricted to CNM employees) and other reports at <a href="https://www.cnm.edu/depts/opie">https://www.cnm.edu/depts/opie</a> .) |
| For the 2017-2018 year, students in the CIS 1425 course experienced a course completion rate of 73.7% (Fall 2017) and 82.8% (Spring 2018), an increase of 9.1%. CIS 2423 had a completion rate of 100% in Fall 2017 and was not offered in Spring 2018.  |

  

| Changes Implemented During the Past Year in Support of Student Learning |
|---|
| No changes implemented  |

**PART 3: REPORT ON ASSESSMENT OF STUDENT LEARNING**

| <b>Assessment Method</b> | <b>Type of Assessment Tool</b> | <b>Population or Course(s) Assessed</b> | <b>Graduate Learning Outcome(s) Assessed</b>  | <b>Mastery Level</b><br>(E.g., "Minimum score of 3 on a rubric scaled 0-4" or "Minimum score of 75%") | <b>Targeted % Achieving Mastery</b> | <b>Outcome</b> |
|--------------------------|--------------------------------|---|---|---|-------------------------------------|----------------|
| Objective Exam           | Direct & Internal              | CIS 1425                                | Student can use Network Protocol Models to explain communication between devices on a data network                            | Minimum score of 70%  | 100%                                | Target met     |
| Skills Exam              | Direct & Internal              | CIS 1425                                | Student can design a network with mathematical literacy and effectively implement the design to create a functioning network. | Minimum score of 70%  | 87%                                 | Target met     |
| Skills Exam              | Direct & Internal              | CIS 2423                                | Student can create a LAN environment implementing VLANs and wireless devices.   | Minimum score of 70%  | 100%                                | Target met     |
| Skills Exam              | Direct & Internal              | CIS 2423                                | Student can create WAN environments implementing appropriate protocols for current networking technologies.                   | Minimum score of 70%  | 100%                                | Target met     |
| Skills Exam              | Direct & Internal              | CIS 2423                                | Student can create a logical diagram and translate it to a physical implementation on a network.                              | Minimum score of 70%  | 100%                                | Target met     |

| <b>Summary of Assessment Findings</b>  |
|--|
| Students completing a Networking Certificate of completion are proficient in areas assessed. A small percentage of students were challenged in the mathematical implementation of a network design scheme. |

**Interpretation of Assessment Findings**

While students are proficient in almost all areas, additional work is needed in the area of math to help students become proficient in logical network design.

**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.)

Additional hands-on labs and outside source material will be added to assist students in math proficiency in CIS 1425.

*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 type="checkbox"/> Assignment revision                |
| <input type="checkbox"/> Budgetary reallocation       | <input type="checkbox"/> Change in teaching approach     | <input checked="" 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 |
|---|---------------|
| N/A   | N/A           |

**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.) |
|---------------------|--|
| 2014-2019           |  |

| 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.               |                                      | CIS 1425                          | Objective Exam              |
| Demonstrate network mathematical literacy both in theory and application as it applies to networks. |                                      | CIS 1425                          | Skills Exam                 |
| Design, address, construct and test LANs containing multiple VLANs as well as wireless devices.     |                                      | CIS 2423                          | Skills Exam                 |
| Design, address, construct and test WAN topologies selecting from current networking technologies.  |                                      | CIS 2423                          | Skills Exam                 |
| Develop a logical diagram and translate it to a physical implementation.                            |                                      | CIS 2423                          | Skills Exam                 |