**LBHC Program learning outcome report (2023-24)**

**I. General information**

| **Degree or certificate name** | A.A.S. in Information Technology |
| --- | --- |
| **Degree option names** | none |
| **Date report submitted** | May 8, 2024 |
| **Program faculty who contributed to this report** | Ryan Schoppe |
| **Program learning outcome** (refer to your program learning outcomes curriculum map and plan for the PLO to be formally assessed this year) | 1. Implement cybersecurity measures to protect personal and corporate data, systems, and networks |
| **Course that formally assesses this program learning outcome at its highest level** (see program learning outcome curriculum map and plan) | IS 130 – Intro to Cybersecurity |
| **Number of students assessed for this program learning outcome** | 5 |
| **Semester students were assessed** (e.g., fall 2023) | Spring 2024 |

**II. Assessment of indicators for the program learning outcome** (add more rows if necessary)

| **Break down your program learning outcome into indicators** (maybe taken from rubric): Students should be able to… | List the most significant **teaching and learning activities** used by faculty to facilitate the learning of each PLO indicator in their class(es) | List the **graded assignment(s) that formally assesses** each indicator at its highest level | **Results of assessment:** For each indicator, record the % or # of students who performed below, at, or above expected levels (or enter whatever information makes sense to you) | **Overall, how well did the students perform on each indicator?** (insert an “X” before the appropriate statement) |
| --- | --- | --- | --- | --- |
| Identify Cybersecurity threats. | Instructor-led discussion, video and student research | Class Final Exam | Below expected levels:0  At expected levels: 2  Above expected levels: 3 | Below expected levels  At expected levels  Above expected levels **X** |
| Design Cybersecurity education | Instructor-led discussion, video and student research | Class Final Exam | Below expected levels: 1  At expected levels: 1  Above expected levels: 3 | Below expected levels  At expected levels **X**  Above expected levels |
| Differentiate the different roles technology has in cybersecurity | Instructor-led discussion, video and student project | Class Final Exam | Below expected levels: 0  At expected levels: 2  Above expected levels: 3 | Below expected levels  At expected levels  Above expected levels **X** |
| Create a Cybersecurity response plan | Instructor-led discussion, video and student project | Class Final Exam | Below expected levels:1  At expected levels: 2  Above expected levels: 2 | Below expected levels  At expected levels **X**  Above expected levels |

**III. Overall assessment of this program learning outcome** (please be thorough in all responses)

| **Overall, how well did the students perform on this PLO?** (insert an “X” before the appropriate statement) | Below expected levels  At expected levels  Above expected levels **X** |
| --- | --- |
| **Analyze assessment of PLO indicator results in section II:** What does the information in section II suggest to you about the performance expectations, the teaching strategies, and student learning? | Overall, I was surprised with the quality of outcomes that my students demonstrated. Because this was my first year instructing this class, and I had limited time to develop the curriculum before starting, I was worried that the student outcomes would not be to the standard I hoped. However, the combination of varied instructional methods combined with relying heavily on real-world news that served as amazing examples of cybersecurity attack and how they could have been prevented allowed the students to thrive in the class. |
| **Next steps:** Plans for reinforcing effective teaching and learning strategies and for improving student learning (clearly identify what will be done, by whom, by when, and how you will assess the impact of the changes) | I would like to continue to develop the library of examples of and also additional student-led exercises to better accommodate all learning styles. This will need to be accomplished before the next time this class is offered in spring 2025.  Also, I want to ensure the classroom learning environment does not suffer as the enrollment numbers for the class grows because it greatly benefitted from having a small class size. Keeping all of the students actively engaged and not allowing anyone to disappear into the crowd will be essential as the class size grows. |
| **Projected semester of implementing “next steps”** | Spring 2025 |
| **Results of “next steps” implementation on student learning – this section is to be completed the following year** (describe how the implementation of the above “next steps” impacted student learning in the program) |  |
| **Date “results of ‘next steps’ implementation” section above submitted** |  |
| **Suggestions** for improving this report or process (if any) |  |