Annual Academic Assessment Report
Department of Electrical Engineering and Computer Science
Cybersecurity Graduate Certificate
June 2024

I.   Student Learning Outcomes

The Cybersecurity Graduate Certificate student learning outcomes are identified as CY1 through CY2:

> **CY1.** An ability to apply security principles and practices to the environment, hardware, software, and human components of a system.
>
> **CY2.** Be able to analyze and evaluate systems with respect to maintaining operations in the presence of risks and threats.

II.   Assessment and Evaluation: AY 2023-2024

The Department of Electrical Engineering and Computer Science (EECS) evaluated Student Learning Outcome assessments. The results of the analysis are summarized in the following:

- **Outcome CY1**:
  - The outcome measured in courses indicates students are achieving the Outcome at the desired target level.
- **Outcome CY2**:
  - The outcome measured in courses indicates students are achieving the Outcome at the desired target level.

III.   Changes to the Degree Program- Planned or Considered

There are no changes in the Cybersecurity Graduate Certificate (CYBRGC) program planned or considered based on the assessment and evaluation process. The program is now under a recent merger of the Department of Computer Science and Computer Engineering (CSCE) and the Department of Electrical Engineering (ELEG) into the new Department of Electrical Engineering and Computer Science (EECS) that officially began August 14, 2023. This is an organizational change and for now degree programs will not be modified. It is anticipated there may be program changes in the future. For example, the EECS faculty may consider graduate courses that could be shared between the Computer Engineering, Computer Science and Electrical Engineering degree programs.

IV.   Changes to the Assessment Process - Planned or Considered

The Cybersecurity Graduate Certificate outcomes are assessed using the following tools:

1. **Course Evaluation:** Evaluations of the course content pertaining to outcomes by students and faculty.

There will be an external review of the graduate programs in Computer Science in October 2024. The recommendations and comments from the evaluators will be assessed by the EECS Department and College of Engineering. Improvements to the Student Learning Outcomes and assessment process will be considered by the EECS faculty during the 2024-2025 academic year.