Annual Academic Assessment Report

Bachelor of Science in Computer Science (CSCEBS)

Student Learning Outcomes:

CS1. An ability to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

CS2. An ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

CS3. An ability to communicate effectively in a variety of professional contexts.

CS4. An ability to recognize professional responsibilities and make informed judgements in computing practice based on legal and ethical principles.

CS5. An ability to function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

CS6. An ability to apply computer science theory and software development fundamentals to produce computing-based solutions.

Assessment and Evaluation: AY 2022-2023 The Undergraduate Studies Committee (USC) in the Department of Electrical Engineering and Computer Science (EECS) evaluated Student Learning Outcome assessments. Because of the merger of the Department of Computer Science and Computer Engineering (CSCE) and the Department of Electrical Engineering (EECS), the results were not discussed at the annual faculty meeting, held August 16, 2023. They will be presented at a future meeting in the Fall 2023. The results of the analysis include the following:

- **Outcome CS1**:
    - The outcome measured in courses indicates students are achieving the Outcome at the desired target level.

- **Outcome CS2**:
    - The outcome measured in courses indicates students are achieving the Outcome at the desired target level.

- **Outcome CS3:**
    - The outcome measured in courses indicates students are achieving the Outcome at the desired target level.

- **Outcome CS4:**

- o   The outcome measured in courses indicates students are achieving the Outcome at the desired target level.

- **Outcome CS5:**
  - o   The outcome measured in courses indicates students are achieving the Outcome at the desired target level.

- **Outcome CS6:**
  - o   The outcome measured in courses indicates students are achieving the Outcome at the desired target level.

Changes to the Degree Program – Planned or Considered

There are no changes to the BS in Computer Science degree program planned or considered based on the assessment and evaluation process. However, the program is now under a new 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 changed, although we anticipate there may be changes in the future. For example, the faculty is considering renaming all courses to EECS to make it easier to schedule classes and look for opportunities to find classes that could be shared, especially between the computer engineering and electrical engineering programs. Therefore, we do anticipate some changes to the BS in Computer Science in the future.

Changes to the Assessment Process – Planned or Completed

The BS in Computer Engineering, BS in Computer Science, and BA in Computer Science programs have a slightly different assessment processes than the BS in Electrical Engineering processes. We anticipate merging the processes, so they are near identical in all four programs.