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 2023-2024 The Department of Electrical Engineering and Computer Science (EECS) evaluated Student Learning Outcome assessments. 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:**
  - The outcome measured in courses indicates students are achieving the Outcome at the desired target level.
- **Outcome CS5:**

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

- **Outcome CS6:**
    - 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. In November 2023, the faculty voted that 9 hours of Computer Science technical electives are now defined as any CSCE 40000-level or higher course not required for the degree except for CSCE 4900V Individual Study. Thus, certain courses outside the department that were listed in the handbook can no longer count towards these 9 hours. In addition, 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.

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.