

## Computer Science Program Assessment Plan

### **Program Learning Objectives**

Students successfully completing the program should possess the following attributes :

1. Strong understanding of the fundamental science, mathematics, and processes that underlie computation and computer science.
3. Ability to analyze computational systems using appropriate practical and theoretical models.
4. Ability to design, implement, test and validate computational systems subject to appropriate requirements and external constraints.
5. Effective teamwork and group development skills for solving technical problems and delivering working systems.
6. Ability to communicate ideas and research findings effectively in written reports, oral presentations, and graphical summaries.
7. Appreciation of the cultural, ethical, societal, environmental and life-long-learning responsibility of computing professionals.

### **Proposed Program Assessment Methods**

#### *Direct*

- Student assignments and projects in CSC core courses CSC173, CSC242, CSC252, CSC254, CSC280, CSC282, CSC200 address all program learning objectives and student performance requires a high level of understanding of computational concepts and skill mastery. Therefore, student grades in these courses strongly reflect students' achievement of program learning objectives. Student grades will be reviewed annually and program change made as needed. (annual, undergraduate program faculty and staff)
- Post-graduation placement in physics or related discipline graduate school programs. (annual)
- Student scores on Computer Science MFT (annual, undergraduate program faculty and staff)
- Awards and Scholarships received by students (annual, undergraduate program faculty and staff)
- Faculty Course Reflective Memos in courses selected by Undergraduate Committee each year. Reflective memos require that faculty write course learning objectives, align them with PLOs, review student assessments (exams, papers etc.) for each course objective and whether students achieved objective, and describe planned course improvements for those course objectives not achieved.

#### *Indirect*

- Semi-annual review meeting between undergraduate council representatives and faculty.
- Alumni survey questions asking alumni to self-assess learning.