DATE: November 12, 2017

TO: Randall Hannum, Chair of the College Council Curriculum Committee

FROM: Curriculum Subcommittee

Masato Nakamura, Unurjargal Nyambuu, and Ben Mendoza (Chair)

RE: Final Report for Proposal 17-04 CST4723 and CST3650.

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**PROPOSAL DESCRIPTION**:

The Computer System Technology Department seeks to introduce two new major elective courses:

1. CST 4723-High Performance Computing and Parallel Programming
2. CST 3650 – Data Structures:

**Rationale:**

These courses will allow students to further develop their programming skills and knowledge.

**Strengths:**

The addition of these elective courses promises to strengthen the Computer System Technology program. This is important specifically, for students looking for specialization on the field of software developing/engineering. For software developers, knowledge of basic data structures and algorithms for manipulating them is a must, CST 3650 will help them to acquire that knowledge. Additionally, computationally intensive programs, common on scientific computing and data science, benefit from parallelizing computer code. CST 4723 focus on teaching students to write computer programs that can take advantages of multiple cores, multiple computers, and high-performance systems.

**Weaknesses:**

None

**Issues and Concerns Discussed and Resolved:**

The subcommittee offered minor suggestions for revisions to the proposers. All suggestions were accepted and made. These are reflected in the current version of the proposal.

**Subcommittee Activities:**

In addition to communicating its suggestions for revision to all the proposers, the subcommittee met with them, Profs. Candido Cabo, David Bellehsen, and Hong Li (Chair of the CST Department). The subcommittee also had a meeting with the proposers and Provost Bonne August, Associate Provost Pamela Brown, Dean Kevin Hom, and Kim Cardascia.