**DATE**: April 13, 2015

**TO:** Viviana Vladutescu, Chair

 College Council Curriculum Committee

**FROM:** Curriculum Subcommittee

 Aparicio Carranza (**Chair**), Megan Massaro

**RE:** Final Report for Proposal 14-18 MTEC 2230 Media Computation

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**COURSE NUMBER: MTEC 2320**

**COURSE TITLE: Media Computation**

**CREDIT HOURS: 3 Credits, 4 Hours: 2.0 Class hours and 2.0 Lab Hours**

**PRE-REQUISTIES: MTEC 1003 - Media Computation Skills Lab**

 **CST 1101 - Problem Solving with Computer Programming**

 **IMT 1101 - Emerging Media Foundation**

**CO-REQUISITES: None**

**Catalog Description:**

*Media Computation* introduces a selection of programming languages, software tools, algorithms, and data analysis techniques for engaging with new media as a software developer. Students gain experience with web development, real-time data analysis, data visualization/sonification, and hardware and user-interface programming by using each new set of related concepts and tools to incrementally develop components of a pre-specified application. Students are exposed to a diverse set of specific technologies, potentially including but not limited to: JavaScript, Bash, MySQL, C, Octave/Matlab, Rails, Max/PureData, and Amazon Web Services.

**Rationale:**

There are three tracks, or concentrations, in the Emerging Media Technologies program: “Media Design,” “Tangible Media,” and “Media Computation.” Each concentration, except for Media Computation, has a gateway course that serves as a foundation for skills required in upper-level courses within the concentration. The proposed course provides the missing foundation for the Media Computation track.

**Strengths:**

For the Media Design Concentration this course (MTEC 2120) will serve as the gateway course.

The course supports a number of Emerging Media Learning outcomes, by providing experience in the areas of: Cloud Computing, Web Frameworks, Object Oriented Programming, Physical Computing, Data Visualization/Sonification, Client-Side Scripting.

**Weaknesses:**

 None

**Issues and Concerns Discussed and Resolved:**

The subcommittee, during the reviewing process made several suggestions to the proposers with the purpose to strengthen the proposal, all of which were incorporated by the proposer. The number of topics listed in the course seemed to be very ambitious to which the proposers clarified appropriately that the course will be presented more as a breadth than depth approach.

All comments and suggestions were well taken by proposers and incorporated into the final version of the proposal.

**Subcommittee Activities:**The subcommittee met with proposers, Provost Bonne August, Associate Provost Pamela Brown, Dean Kevin Hom, and Kim Cardascia. Further modifications were suggested and were also incorporated in the final version of the proposal.