Minutes of the Engineering Undergraduate Studies Committee (EUSC)

October 7, 2015

Present, EUSC: Masten (ENE), Buch (DE), Genik (AES), Lee (CHEMS), Liao (BAE), Owen (CSE), Rothwell (ECE), Brereton (ME), Frahm (Student)

Absent, EUSC: Mahapatra (ECE, UCC), Idema (DE)

Also present: Pease (DE), Keith Promislow (MTH), Andrew Christleib (CMSE)

1. **Agenda:** APPROVED

2. Draft **Minutes** of September 16, 2015 were APPROVED

3. Keith Promislow (Chair of Math) and Andrew Christleib (Chair of CMSE), presented information about the Mathematical Sciences Initiative and the Engineering Calculus Stream. The initiative incorporates MTH, STT and CSME and would diversify curriculum by identifying four major streams of students and adapt course content to the needs of the stream, across disciplinary boundaries. The current calculus stream has the following limitations- (i) introduces concepts without connection to physical intuition and practical applications; (ii) MTH 133 is a significant barrier for students; and (iii) no significant use of computational tools nor modeling applications. In light of these limitations an Engineering Calculus stream was presented. The proposed stream consists of four courses (total of 15 credits). Details about the proposed courses can be found in the attached power point presentation. It is proposed that the “revised” MTH 133 will be piloted in Fall 2016. The timeline details can be found in the attached power point presentation.

4. A new course, CSE 482- Big Data Analysis was APPROVED.

Meeting was adjourned at 5:07 pm

Respectfully submitted,

Neeraj Buch
Secretary