Minutes of the Engineering Undergraduate Studies Committee (EUSC)
November 5, 2013

Present, EUSC: Owen (CSE), Liao (BAE), Wolff (DE), Masten (ENE), Lapaix (Student), Al Dhaneem (Student), Sticklen (AES), Rothwell (ECE), Lee, A. (CHE), Brereton (ME), Lyles (CEE)

Absent, EUSC: Mahapatra (ECE, UCC)

Also present: Idema (DE), Pease (DE)

1. Agenda: Approved

2. Minutes of October 15, 2013 were approved with a minor correction

3. Tim Hinds presented an overview of EGR 100. The class enrollment has approximately doubled since the first large scale offering in fall 2008, and will serve approximately 1400 students this year. The class does two major projects in teams of four, and several mini-projects of one class period duration. The first project is common across all groups, and requires programming a robot to do a number of tasks. The course has added a significant number of alternatives for the second project, including advanced robotics, heat transfer, programming apps for cell phones, solar powered model cars, design of adaptive devices for persons with disabilities, and improving heat retention in campus greenhouses for the RISE program.

The class has partnered with a number of programs on campus, including the Resource Center for Persons with Disabilities (RCPD), the Residential College for Arts and Humanities (RCAH, projects for Peckham Industries) and the RISE program.

A question was raised as to how the class differed from attending a high school engineering summer camp. Wolff replied

- Team members are much more diverse, including urban low-income, rural low-income, suburban and international. A key course component is developing teamwork skills.
- Course has significant graded writing and presentation expectations.
- Course includes corporate presenters and expectations of preparing a resume and attending career fairs.
- Most students will not have had the opportunity to attend such a camp.

That led to a question about granting credit for high school pre-engineering courses. Wolff replied that the university only grants credit for high school experiences with an established oversight entity, such as Advanced Placement, CLEP, A-levels, etc. Going beyond this would require extensive review and continuing quality control of a large and open-ended number of possible requests. Several states have mandated college credit be granted for students enrolled in the Project Lead the Way program.

4. Time did not allow for discussion regarding the Packaging Program proposal. The Packaging proposal will be first on the 11/19/13 agenda followed by the Teaching Effectiveness Task Force items, the ME program change and the CSE program and course changes.

5. CE 444 and CE 461 course changes PASSED. These were prerequisite cleanups overlooked from earlier course changes.

6. MSE 474 and MSE 481 course changes PASSED. These are numbering changes to provide for more consistent course numbering.

Meeting adjourned at 9:00 am

Respectfully submitted,

Thomas F. Wolff
Secretary