

## ECE Curriculum Committee Meeting Minutes for Oct. 31, 2012

**Members AY 2011-12:** Stephen Levinson (chair), Juliy Baryshnikov, Tanguel Basar, Andreas Cangellaris (ex-officio), Ann Catrina Coleman, Brian Cunningham, John Dallesasse, Alejandro Dominguez-Garcia, Yih-Chun Hu, Seth Hutchinson, Erhan Kudeki (ex-officio), Gang Liu, Steven Lumetta, Jonathan Makela, Sayan Mitra, Michael Oelze, Gabriel Popescu, Maxim Raginsky, Paris Smaragdis, Rayadurgam Srikant, Nitin Vaidya, Daniel Wasserman

### **Attendees:**

Levinson, Kudeki, Makela, Basar, Hutchinson, Dallesasse, Wasserman, Raginsky, Coleman, Hu, Srikant, Cangellaris, Baryshnikov, Jean-Pierre Leburton (MNTL guest)

The meeting was called to order at 2:10 PM.

Minutes of Oct. 17, 2012 were approved.

ECE412 is presently dormant due to the need for upgrading the lab equipment. Therefore, the matter of the new CS233 as a prerequisite is moot.

Lumetta was not able to attend to present a draft proposal of the CompE curriculum. It should be available at the next meeting. In the meanwhile the discussion continued on several key issues.

- ⤴ How do we insure breadth in the CompE curriculum, particularly electromagnetics and solid state physics? Five of our peer institutions use options from an m of n list for advanced core courses.
- ⤴ Are we using the same criteria for breadth in the EE and CompE programs?
- ⤴ EEs take 190 and 290 so shouldn't CompE's take 329 and 340?
- ⤴ EEs don't have requirements for control and scientific computing.
- ⤴ The breadth requirements for CompEs could be met with a new course covering EM, solid state physics, digital signal processing, control and communications.
- ⤴ Alternatively Phys 213 and 214 could be modified to meet our needs. They are presently not adequate for this purpose. We still need to review the 214 syllabus.
- ⤴ There could be two alternative tracks in CompE, one concentrating on processor design the other on computing systems.
- ⤴ We need to maintain coherence in our ECE curriculum. We could have a single program with different concentrations, perhaps more than just the two present ones.

The meeting was adjourned at 3:00 PM.

These minutes drafted by S. E. Levinson, Nov. 1, 2012, revised Nov. 8, 2012.