

ECE CURRICULUM COMMITTEE

TO: Tangu Basar, Jennifer Bernhard, Dick Blahut, Steve Boppart, Donna Brown, Seth Hutchinson, Wen-Mei Hwu, Doug Jones, Steve Levinson, Daniel Liberzon, Tom Overbye, Mary Parsons, Sanjay Patel, Narayana Rao, Dilip Sarwate, Naresh Shanbhag, Greg Timp, Bruce Wheeler

FROM: Erhan Kudeki

SUBJECT: Curriculum committee meeting minutes

DATE: November 7, 2003

Minutes of the Curriculum Committee Meeting of November 6, 2003

- 1) Members present: Tangu Basar, Jennifer Bernhard, Donna Brown, Seth Hutchinson, Doug Jones, Steve Levinson, Tom Overbye, Sanjay Patel, Dilip Sarwate, Bruce Wheeler
- 2) The minutes of October 30, 2003 meeting were approved.
- 3) Dr. Ikhlaq Sidhu gave a short presentation about the activities and course offerings of the Technology Entrepreneur Center (G.E.). About 100 ECE students (undergrad and grad, combined) take courses offered by the TEC. Some of these courses may be used for satisfying a distribution requirement on professionalism and engineering ethics --- the committee will be debating the idea of such a distribution requirement in the coming weeks.
- 3) The revised version of the proposal for ECE 190, "Introduction to Computing Systems", was approved.
- 4) Discussions concerning the revision of the undergraduate math requirements for EE and CompE majors were concluded and a recommendation outlined below was unanimously approved. Under the recommended curriculum the students will study vector calculus before enrolling in junior-level ECE electives. They will also be exposed to linear algebra and, possibly, complex variables, at a level that depends on which option described below is chosen. The recommended curriculum is as follows:

"Following Math 120 (5 hrs) and Math 130 (3 hrs), Electrical Engineering and Computer Engineering majors are required to complete one of the following sets of courses:

- 1) Math 243 (4 hrs) and Math 286 (4 hrs)
- 2) Math 242 (3 hrs), Math 285 (3 hrs), and ECE 271 MM (3 hrs)
- 3) Math 242 (3 hrs), Math 285 (3 hrs), Math 280 (3 hrs), and Math 315 (3 hrs)"

It is further recommended that pre-requisites for ECE 229 be changed to include "Math 243 or ECE 271 MM or Math 280". With these modifications the number of required hours in EE and CompE curricula will change to 64 and 76, respectively, while Technical Elective hours will be adjusted to 13 and 22. Math 315 will no longer be a required course in the CompE curriculum. Students choosing options (2) or (3) will earn extra credits (1 or 4) which may be counted as Technical Elective and/or Free Elective hours in accordance with the existing constraints which define these categories.

- 5) It was recommended that Steve Levinson reserve a permanent course number for his course ECE 271 MM (Mathematical Methods in ECE) which is currently under development.
- 6) The next meeting is planned for 3 pm Thursday, November 13, 2003 in 312 EH.