**TO:**       The Faculty of the College of Engineering

**FROM:**    School of Electrical and Computer Engineering of the College of Engineering

**RE:**       ECE 54700 Change in Description

The faculty of the School of Electrical and Computer Engineering has approved the following changes in ECE 54700. This action is now submitted to the Engineering Faculty with a recommendation for approval.
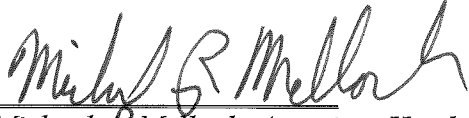
**From:**     **ECE 54700 – Introduction to Computer Communication Networks**
Sem. 1. Class 3, cr. 3. (Offered in alternative years.)
Prerequisite: ECE 30200. Authorized equivalent courses or consent of instructor may be used in satisfying course pre- and co-requisites. Departmental approval required.

A qualitative and quantitative study of the issues in design, analysis, and operation of computer communication and telecommunication networks as they evolve toward the integrated networks of the future, employing both packet and circuit switching technology. The course covers packet and circuit switching, then OSI standards architecture and protocols, elementary queuing theory for performance evaluation, random access techniques, local area networks, reliability and error recovery, and integrated networks.

**To:**       **ECE 54700 – Introduction to Computer Communication Networks**
Sem. 1. Class 3, cr. 3.
Prerequisite: ECE 30200.

A quantitative study of the issues in design, analysis and operation of computer communication and telecommuncation networks as they evolve towards the integrated networks of the future employing both packet and circuit switching technology. The course emphasizes a fundamental understanding of basic network design, routing, dimensioning, and control. The students will study various network functions such as error-recovery algorithms, flow control, congestion control, routing, multi-access, switching, etc. These will also be studied in the contect of current Internet solutions (e.g. TCP, IP, etc.) and future open problems, and possible solutions.

**Reason:**    The course description has been changed to reflect the updated content of the course.

Michael R. Melloch, *Associate Head*
School of Electrical and Computer Engineering