To: The Engineering Faculty  
From: School of Electrical and Computer Engineering  
Re: ECE 46300

The School of Electrical and Computer Engineering has approved the following changes to an existing course. This action is now submitted to the Engineering Faculty with a recommendation for fast-track approval.

**ECE 46300 Introduction to Computer Communication**  
Seminars offered: Fall  
Non-repeatable  
Credit 3

**FROM:**  
Pre/Co-requisites: ECE 26400

**TO:**  
Pre/Co-requisites: ECE 36800

**Course Description**  
An introduction to the design and implementation of computer communication networks. The focus is on the concepts and the fundamental design principles that have contributed to the global Internet's success. Topics include: digital transmission and multiplexing, protocols, MAC layer design (Ethernet/802.11), LAN interconnects and switching, congestion/flow/error control, routing, addressing, performance evaluation, internetworking (Internet) including TCP/IP, HTTP, DNS etc. This course will include one or more programming projects.

**Reason**  
The instructor is finding that just having Advanced C programming is not sufficient to succeed in this course, and finds those students with data structures are much more successful.

**History of Previous Offering**  
This course has run for over 15 years, and as the materials evolved to fit today's needs, the grades of students without data structures has decreased.

Michael R. Melloch, Associate Department Head of ECE