PURDUE
U N I V E R S I T Y

SCHOOL OF ELECTRICAL
AND COMPUTER ENGINEERING
UNDERGRADUATE ADVISING OFFICE

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
Semesters 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 ran 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