

**University of California San Diego**  
**Department of Computer Science & Engineering**  
**CSE 123 – Computer Networks – Spring 2013**

### Overview/Objective

A thorough introduction to Computer Networks, with emphasis on concepts. In addition, hands-on introduction to network protocol implementation and client-server applications programming.

### Instructor

- Prof. **George C. Polyzos** ([gpolyzos@eng.ucsd.edu](mailto:gpolyzos@eng.ucsd.edu), <http://cseweb.ucsd.edu/~polyzos/>,  
Office: CSE 3132, Tel.: x4-8615)
  - Lectures: MWF 9:00-9:50 am (CSB 002)
  - Office Hours (CSE 3132): MW 10:05-10:55
  - Discussion/Tutorial: M 3:00-3:50 pm (CSB 002), typically by a TA, but **starting M 04/01** with lecture material.
  - (Final: W 06/12/2013, 08:00-10:59 am)

### TAs

- Usha Subburaj ([usubbura@eng.ucsd.edu](mailto:usubbura@eng.ucsd.edu))
- Boxiang Pan ([bopan@ucsd.edu](mailto:bopan@ucsd.edu))
- TA Office Hours: TBA

### Textbook

- L.L. Peterson and B.S. Davie, [\*Computer Networks: A Systems Approach\*](#), Morgan Kaufmann, 5<sup>th</sup> Edition, ISBN: 9780123850591

### Other Texts

- J. Kurose and K. Ross, [\*Computer Networking: A Top-Down Approach\*](#), Pearson, 6<sup>th</sup> Edition, ISBN: 9780136079675
- A.S. Tanenbaum and D.J. Wetherall, [\*Computer Networks\*](#), Prentice Hall, 5<sup>th</sup> Edition, ISBN: 9780132126953

### Coverage/Topics

Chapters 1-6 of the Peterson & Davie text will be covered. (Roughly, Physical to Transport layers.)

### Grading

- Homeworks and/or quizzes: 10%
- Midterm (during LE or DI): 20%
- (Programming in C) Project: 30%
- Final: 40%

### About the Project

The project is a significant, semi-independent, component of the course. It involves programming in C, the use of the sockets interface and relies on understanding of operating systems and the ability to work with signals and processes. You are expected to work collaboratively in groups of two, but to have individual responsibilities, which you will decide between you and will have to document in the final project report. However, each team member will also have to demonstrate deep understanding of the full project.