Summer 2016 (1st 5-week)
CS 380 Introduction to Computer Networks
MoWe 1:00-4:50PM
Room 3/2636

Instructor Dr. G. S. Young
- Office             8/14
- Office Hours
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tr>
<td>Mo</td>
<td>12:30 – 1:00 p.m.</td>
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<td>Tu</td>
<td>4:00 – 5:00 p.m.</td>
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<td>We</td>
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<td>4:00 – 5:00 p.m.</td>
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<td>Or by appointment</td>
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- Phone             909-869-4413
- Email             gsyoung@cpp.edu

Web Site http://www.cpp.edu/~gsyoung/CS380/16Su/cs380.htm

Course Description http://www.csupomona.edu/~cs/student/undergrad.html
Prerequisite: CS 241 and CS 264 with grades of C or better.

Textbook L. Peterson and B. Davie

References A. Tanenbaum
Computer Networks, 5th Edition

Grading
Homework/Projects................................................................. 35%
Midterm (7/11) ........................................................................... 30%
Final (Comprehensive, 7/25, 1:10 - 3:10 p.m.) ....................... 35%

A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69%, F: 59% and below
(+ and – grades will be assigned)
(e.g. B+ for upper 80’s, B for mid 80’s, and B- for lower 80’s.)

Academic Integrity I encourage discussion among students, but I expect each student to hand in original work. You are responsible for doing your own work and for insuring that your work is protected from copying. The University’s policy on Academic Integrity, as stated in the catalog, will be enforced.
Homework Policy

Homework assignments must have a cover page that includes your name, total number of pages including the cover page, and homework assignment number. Put your name on the upper right hand corner on each page except the cover page and staple them together.

Homework assignments are due at the beginning of class – place them on the instructor's desk when you arrive. No late homework. No late project. It is the student's responsibility to pick up his/her assignments/exams, if not claimed on the return day.

Exam Policy

No questions will be answered during exams. This policy avoids distracting others, obstructing vigilance, and giving unfair advantage. If a question contains an ambiguity or a misprint, then say so in your answer, providing the answer to a reasonable interpretation of the question; give your assumptions. Before the exams, I will discuss - in class - what will be covered on the exams. I will answer questions about exam coverage only during a class session. There will be no make-ups or rescheduling of exams.

Absence

Note that regular attendance is recommended. In the event of an absence, it is the student's responsibility to learn of any material missed. Lectures and demonstrations will not be repeated during office hours.

Outline

Foundation (Chap 1)
Network Requirements and Architecture, Implementation

Direct Link Networks (Chap 2)
Hardware, Encoding, Framing, Error Detection
Reliable Transmission, Ethernet, Token Ring, Wireless Network

Packet Switching (Chap 3)
Switching and Forwarding, Bridges and Switches

Internetworking (Chap 4)
Simple Internetworking, Routing, Global Internet, Multicast

End-to-End Protocols (Chap 5)
UDP, TCP, RPC

Congestion Control and Resources Allocation (Chap 6)
Resource Allocation, Queuing Discipline, Congestion Control and Avoidance

End-to-End Data (Chap 7)
Presentation Formatting, Data Compression

Network Security (Chap 8)
Cryptography, Security Mechanisms, Firewalls

Applications (Chap 9)
DNS, SMTP, HTTP, SNMP