

CNT3004: Computer Network Concepts

Summer 2012

Instructor: Dr. Cliff Zou (HEC 243), 407-823-5015, czou@cs.ucf.edu

Course Time: TuTh 2:00PM - 3:50PM, HEC 118

Office Hour: TuTh 12:00PM – 2:00PM

Course Webpage: <http://www.cs.ucf.edu/~czou/CNT3004/>

Catalog Course Description:

Network media, protocol, current and evolving standards for local, metropolitan, wide area and wireless networks.

Objectives:

The objectives of this course are to introduce the fundamental concepts, structure and components of computer networking, to overview selected protocols associated with the Application, Transport, Network, Link, and Physical Layers of the OSI Reference Model and to show how these protocols are organized to produce computer networks.

The tentative grading policy is:

<u>Coursework</u>	<u>approximate %</u>
1. Homework assignments	(30%)
2. Exam 1	(20%)
3. Exam 2	(20%)
4. Final Exam (comprehensive)	(30%)

The final grade will use +/- policy, i.e., you may get A, A-, B+, B, B- ... grade.

Prerequisites: CGS 1060C Introduction to Computer Science.

Course Materials:

Textbook: B. A. Forouzan, *Data Communications and Networking*, 4th Edition, McGraw-Hill, 2007.

Class Notes: PowerPoint slides will be posted on the class Web site before each class.

Chapters in the textbook covered in CNT 3004

Chapter 1	Introduction
Chapter 2	Network Models
Chapter 3	Data and Signals
Chapter 7	Transmission Media
Chapter 9	Using Telephone and Cable Networks for Data Transmission
Chapter 10	Error Detection and Correction
Chapter 11	Data Link Control
Chapter 14	Wireless LANs
Chapter 15	Connecting LANs, Backbone Networks, and Virtual LANs
Chapter 19	Network Layer Addressing (only the basic concepts needed for Chapter 25)
Chapter 25	Domain Name System
Chapter 26	Remote Logging, Electronic Mail, and File Transfer
Chapter 27	WWW and HTTP
Chapter 31	Network Security