Course Description
This course provides an introduction to fundamental concepts in the design of data communications networks, networking protocols, and applications. Topics to be covered include network architectures, physical media, protocols for data link, network, transport, and application layers, with focus on internet technologies.

Textbook (required)

References (recommended, not required)

Instructor
Dr. Ionut Cardei, Assistant Professor of Computer Science & Engineering
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Course Objectives
To learn the basic concepts of data communications
To learn the layered architecture of communication protocols
To learn the principles and functions performed by each layer of the network architecture
To learn the main protocols and standards of the Internet
To learn basic concepts of internetworking, addressing, and routing.

Prerequisites:
COP 3530 and CDA 3331C

Course Outline:
1. Foundation (chap. 1)
2. Direct Link Networks (2)
3. Packet Switching (3)
4. Internetworking (4)
5. End-to-end Protocols (5)
6. Congestion Control and Resource Allocation (6)
7. Applications (9)
8. Network Programming – TCP/IP with sockets
Class Time & Place
Tuesday and Thursday, 3:30 pm - 4:50 pm in BU 410 (Boca Raton campus)

Office Hours
T: 12:20-3:20 PM
R: 2:20-3:20 PM, 5-7 PM
Boca Raton SE480, tel: 561-297-3401

Grading
Assignments ......................... 40%
2 Exams .............................. 50%
Class participation ................. 10%

Important Dates
10/08/09 Midterm Exam
11/26/09 Holiday – no class
12/03/09 Final Exam

Notes:

• Class Material
Students should read ahead of time the sections that will be discussed in class.

• Blackboard
The course web site containing Lecture Notes, Assignments, Announcements, Course Schedule, will be maintained on Blackboard. Changes to office hours, to class policies, and other announcements will be posted on Blackboard.

• Assignment Submission
All work in this class must be done individually, unless specified otherwise. Assignments are due at the beginning of the class. No late assignments will be accepted without written evidence the delay was beyond the student's control.

• Academic Ethics
Students are required to adhere to the policy on Academic Irregularities and Students' Academic Grievances imposed by FAU.