

SYLLABUS

IDS 520 - Fall 2006

Distributed Processing and Telecommunication Systems

Call number: 14090

Prerequisites: IDS 505 and IDS 510

Instructor: Jan Sunjaya
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Class Time: 6:00 P.M.- 8:30 P.M. Wednesdays
Classroom: Room 208 Burnham Hall
Office Hours: 4:00P.M. - 5:45P.M. Wednesdays

Course Objectives

This course provides students with a comprehensive look at computer networking from the point of view of the network administrator. Topics considered include Ethernet networks, router configuration, TCP/IP networks, local, campus, and wide area networks, network security, and Voice over IP. The students will gain a solid knowledge base in computer networks, network security, and data communications.

Prerequisites

IDS 505, IDS 510, and some computer programming background using Java, C, or C++, are required. Note that some materials presented in this course are overlapped with those in IDS 412. Those students who took IDS 412 should see me to discuss some possibilities to improve your learning experience from this course.

Assignments

There will be three programming assignments using Java. The first assignment is an individual assignment. It is intended to refresh your basic programming concepts using Java. The second programming assignment is to develop a relatively simple Voice over IP program. The third assignment is to develop a relatively simple text and voice Messenger program. For the second and third assignments, students may form groups of two members per group. Each group member should specify the contribution he or she made to the assignments.

Grading

Assignment #1	10.00%
Assignment #2	17.50%
Assignment #3	22.50%
Midterm	25.00%
Final	25.00%

Letter Grades Determination

A: Total score 90% or above
B: 80% <= Total score < 90%
C: 70% <= Total score < 80%
D: 60% <= Total score < 70%
F: Total score < 60%

Note: Midterm and Final exams will be based on the materials covered in class.

Total Score Calculation

Total score = $0.1 * (\text{Assignment \#1}) + 0.175 * (\text{Assignment \#2}) + 0.225 * (\text{Assignment \#3}) + 0.25 * \text{Midterm} + 0.25 * \text{Final}$

Depending on class performance, the grades might be curved.

Required Text

Title: Networking
Author: Jeffrey S. Beasley
Publisher: Pearson Prentice Hall
Year: 2004
ISBN: 0-13-098659-3

Recommended Text for Programming Assignments

Title: Introduction to Java Programming, fourth edition
Author: Y. Daniel Liang
Publisher: Pearson Prentice Hall
Year: 2003
ISBN: 0-13-100225-2

Tentative outline

Date	Subject	Reading Assignments
Week 1	Introduction & Overview	Chapter 1
Week 2	Interconnecting the LANs Assignment #1: Problem discussion	Chapter 4
Week 3	TCP/IP	Chapter 5
Week 4	Introduction to Router Configuration	Chapter 6
Week 5	Routing Protocols Assignment #1 due	Chapter 7
Week 6	Review for midterm exam Assignment #2: Problem discussion	
Week 7	Midterm exam: study chapters 1, 4, 5, 6, and 7	
Week 8	Voice over IP Assignment #2: Programming approach	Chapter 13
Week 9	Wide Area Networking	Chapter 8
Week 10	Configuring and Managing the Campus Network	Chapter 9
Week 11	Network Security Assignment #2 due Assignment #3: Problem discussion	Chapter 10
Week 12	Assignment #3: Programming approach	
Week 13	Wireless Networking	Chapter 11
Week 14	The Network Server	Chapter 14
Week 15	Review for final exam Assignment #3 due	
Week 16	Final Exam: study chapters 8, 9, 10, 11, 13, and 14 Time and Place: TBA (see Blackboard site for this course).	

Honor Code for the College of Business Administration

As an academic community the College of Business Administration at the University of Illinois at Chicago is committed to providing an environment in which teaching, learning, research, and scholarship can flourish and in which all endeavors are guided by academic and professional integrity. All members of the college community – students, faculty, staff, and administrators – share the responsibility of insuring that high standards of integrity are upheld so that such an environment exists.

In pursuit of these high ideas and standards of academic life, as a student I hereby commit myself to respect and uphold the University of Illinois at Chicago (UIC) College of Business Administration Honor Code during my entire matriculation at UIC. I agree to maintain the highest moral and ethical standards in all academic and business endeavors and to conduct myself honorably as a responsible member of the college academic community. This includes the following:

- Not to seek unfair advantage over other students, including, but not limited to giving or receiving unauthorized aid during completion of academic requirements;
- To represent fact and self truthfully at all times;
- To respect the property and personal rights of all members of the academic community.

An abbreviated version of the Honor Code pledge may be printed on course syllabi, exam booklets, and other uses as deemed appropriate. The abbreviated version is as follows:

This course and its associated coursework are being administered under the policies of the University of Illinois at Chicago (UIC) College of Business Administration Honor Code. All students are expected to respect and uphold this code.

Honor Code Violations and Enforcement

Violations of the Honor Code are just causes for discipline under the University of Illinois at Chicago Student Disciplinary Procedure, and all allegations of Honor Code violations shall be handled pursuant to that Procedure.

(For a complete description of just causes for discipline, disciplinary procedures, and sanctions, see the pamphlet “Student Disciplinary Procedure of the Senate Committee on Student Discipline,” available from the Office of the Dean of Students, SSB, Suite 3030, 1200 W. Harrison St., M/C 318.)

Honor Code Council

The Honor Code Council shall be formed consisting of two faculty members elected by faculty vote and six student members (two graduate students and four undergraduate students) appointed by the Assistant Dean for Student Services through recommendation of the Dean’s Advisory Council (DAC). Each member will serve a term of one academic year, beginning in August. The Council shall elect a chairperson and a secretary.

The duties of the Honor Code Council shall include:

- Recommend changes in the Honor Code.
- Inform all students, staff, and faculty of the Honor Code and the procedures to be followed for pursuing alleged Honor Code violations.
- Ensure that the Honor Code is prominently displayed within the College of Business Administration and on course syllabi and exam booklets.
- Ensure that the Honor Code and related information are accurately described in the Graduate and Undergraduate catalogs.
- Work with the Office of Student Services to include the Honor Code in its promotion of the University of Illinois at Chicago College of Business Administration to potential students.
- Work with college administration to ensure that the Honor Code statement is signed by all students prior to their enrollment in the college.
- Inform all UIC faculty, staff, and students of the Honor Code of the College of Business Administration, and encourage the adoption of its principles.