Robert maruyam

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RM

CIS 230: Network Concepts and Applications

Course Description

Introduction to the principles and application of computer network systems. Designed for non-majors, especially for students in business and education, to become familiar with how the network systems function. Includes basic concepts and application of data communication, network protocols, local area network (LAN), Internet, e-mail, and other uses of the network systems.

Course Objectives

The course is intended to help the students to:
- learn the fundamentals of data communications
- provide practical examples of computer networks
- become familiar with installing network software
- continue to study the development in the computer telecommunications and network technologies

Text Book

Business Data Communications, 2nd Edition, by Shelley, Cashman, & Serwatka. Course Technology, 1998. (ISBN 0-7895-4287-0)

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Requirements

Although this course has the form of a directed study, the class will meet once a week (or twice, when there is lab scheduled) for reports of your studies and for discussions on questions that you or your instructor may raise. Each week you will be required to answer a set of questions based on your readings and to present an oral report based on those questions. In addition, there will be a number of lab reports based on laboratory exercises. The answers to the weekly questions, as well as the lab reports, should be recorded in a 3-ring binder notebook and should be submitted at the end of the semester. The final exam will be based on these questions.

You may work on the written and oral reports as a team, so that only one notebook need to be submitttted at the end of the semester. You may take turns in presenting the oral reports, so that one of you can be the principal speaker every other week while the other can be in a supporting role. The questions and lab exercises can be found in the Schedule section of this syllabus. Refer to the section on Grading for further details.

Grading

The semester grade will be based on the following elements of your course responsibilities:

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Oral Reports¹:         30%
Answers to Questions²: 50%
Final Exam³:           20%
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- **The oral reports should be based on the answers to the questions listed in the** schedule.
- **A copy of each week's work, using a word processor, should be handed** in. **Another copy of this should be kept in a binder, which is to be submitted at the end of the semester.**
- **The final exam will be based on the questions that you answer each week.**
- **As a team, you will get the same grade for the written and oral reports. (The** final **exam will be individual grades.)**
- **At the end of the final exam, you will be asked to suggest a grade that you think should be assigned to you, based** on **your assessment of your work and achievement during the semester, and to explain why the suggested grade would be an appropriate one. (Your final grade will not necessarily be the one you suggest, but it will give me a better idea of what you did in the course.)**

The following guidelines will be used in determining the final grades.

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A: >= 90; B: >= 80; C: >= 70; D: >= 60; F: < 60
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Getting Help
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For "quick" questions the email **is the simplest way to contact me. Feel** free **to drop in at my office during** office hours **or to set up an appointments outside those hours. (I am around my office usually in the afternoon.) When you need help in debugging programs, bring a copy of the code that is causing the problem.**

Wk	Assignments
1	
2	*9/6 Labor Day (no classes)* 1. What Is XML?
3	2. Introduction to Communication
4	3. Fundamentals of Data Communication
5	4. Data Transmission
6	5. Protocols
7	6. Network Basics
8	7. The Internet
9	8. Lab 1
10	*11/1 Veteran's Day (no classes)* *9. Local Area Network*
11	10. Lab 2
12	11. Network Management
13	*Thanksgiving Holidays 11/25-11/26 (no classes)*
14	12. Lab 3
15	13. Network Software
16	**Final Exam: TBA**