

King Fahd University of Petroleum & Minerals
College of Computer Sciences and Engineering
Computer Engineering Department

COE 444 - Internetwork Design and Management (3-0-3)

Section 01: SMW: 9:00-9:50 AM, Room: 24-125

Section 02: SMW: 1:10-2:00 PM, Room: 24-273

Spring 2003 (Term 022)

Course Information & Rules

Instructor: Dr. Mohammed Houssaini Sqalli

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Office hours: SMW 10:00-11:30 AM, and by appointment.

Course URL: www.ccse.kfupm.edu.sa/~sqalli/022/coe444

1. Introduction

This course is a practical introduction to internetwork design and management. It includes three major parts:

- Internetworking
- Internetwork Design
- Network Management

2. Overview of the Course

This course covers all three aspects of internetwork design and management:

- Conceptual: e.g., design methodology
- Analytical: e.g., traffic flow analysis
- Practical: e.g., case studies

The course provides the main concepts and alternatives of internetwork design and management. But, it does not provide details on the different equipments to use or how to configure internetworking devices. However, the assigned project will allow the students to have an experience with making an appropriate choice of equipments for their design.

3. How to Study for This Course? (What is expected from every student?)

- Read assigned material
- Print course handouts and bring them to the class
- Take notes in the class. Use the handouts as a start and add the information provided in the class.
- Solve the assigned homeworks
- Follow what is happening in the class as you may have a pop quiz at the end of any lecture. These quizzes will include what we covered on the same day. We will have 3 to 5 regular quizzes in addition to pop quizzes. Time for these regular quizzes will be announced.

You are supposed to learn tools on your own (e.g. OPNET).

You are welcome to see me if you need help with an assignment. But, you should try to solve problems (e.g., homeworks) before you come to me for help.

4. Support Material

Check web links and references for more in-depth information. The course web page www.ccse.kfupm.edu.sa/~sqalli/022/coe444 will be updated frequently to include all the information you need. If you think any links will be useful to all the COE-444 students please let me know and I may include it in the “Useful Links” list.

5. Attendance

Attendance is required by all students. Excuse for an authorized absence from the student affairs deanship must be presented to the instructor no later than one week following the absence. If the absence is during an exam day, the excuse should state that. 10 unexcused absences lead to a “DN” grade.

5 bonus points will be given for attendance:

- The first absence does not affect the bonus points.
- For each subsequent absence, 1 point is deducted from the bonus points.
- For each late attendance, $\frac{1}{2}$ point is deducted from the bonus points.

6. General Information & Rules

Design, in some aspects, is an art. Do not expect to have one solution to a problem. There are however many good and bad solutions. Be creative and make your own assumptions as long as they are technically sound and make business sense.

I welcome feedbacks any time during the semester if you think this will make the course better.

If you didn't take COE-442, then you may have some difficulty with some concepts in this course, e.g., the routing and addressing parts. It is your responsibility to get up to speed with all the class.

Office hours are the best time to contact me. Otherwise, you may arrange for another time by sending me an email with the suggested time and duration. During the exam periods, I may limit the duration for each student to allow more students to benefit.

After the date and time of major exams are fixed, they will not be changed. So, make sure you make me aware of any conflict you may have as soon as the exam dates are announced, and no later than one week after that. No make up quizzes or exams will be given.

Cheating, copying information from the web (for projects/assignments) will lead to a 0 grade for all the students involved. If you are in doubt of the type of cooperation permitted, please contact me.

7. Late Submission of Assignment/Project

All assignments (e.g., project reports) submitted after the due date will have 10% of the assignment maximum grade subtracted for every late day. If the submission is one week late, the grade for the assignment will be 0. (e.g. If you get a grade of 80% in one assignment submitted 2 days later than the due date, you'll only receive a grade of 60%)