ECE 683 Computer Network Design and Analysis

Instructor: Dr. Abdallah Khreishah, 349 ECEC.
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Office Hours: Friday 5-6pm or by appointment via email/phone call
Meeting times: Friday 6-9 pm
Meeting place: CULMLECT 2
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Co-requisite: ECE 673 RANDOM SIGNAL ANALYSIS I

Textbook and References

• References (not required)

Topics to be covered (subject to modification by the instructor)
• Overview of Communication Networks and Services
• Layered Architectures
• Digital Transmission Fundamentals
• Multiplexing and Switching
• Peer-to-Peer Protocols and Data Link Layer
• Medium Access Control Protocols
• Local Area Networks
• Network Layer Protocols
• TCP/IP Protocols
• Network Security

Grading
• Homework will be assigned but not graded and solutions will be posted.
• Mid-term and final exams will have the difficulty level similar to homework’s.
• A small quiz is given during every other class, unless otherwise specified.
• Grades are based 20% on quizzes, 40% on midterm, and 40% on final.
• No make-up.

Honor Code
The NJIT Honor Code will be upheld, and any violations will be brought to the immediate attention of the Dean of Students.

Course webpage: http://web.njit.edu/~abdallah/ECE683.htm