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
TA: Zuochao Dou, Email: zd36@njit.edu

Co-requisite: ECE 673 RANDOM SIGNAL ANALYSIS I

Required background: Basic knowledge of communications and probability.

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