Instructor: Dr. Yonghe Liu

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Prerequisite: cse5344 (Computer Network Organization).

Logistics:

- Class schedule: TTH 12:30pm- 1:50pm, NH 109
- Office hours: TTH 11:30am-12:30pm
- Teaching assistant: TBA Office hour: TBA
- Textbooks: *Wireless Communications & Networks* by William Stallings. Amazon
- Reference books:
  Wireless Communications: Principles and Practice by Theodore S. Rappaport Amazon
  Wi-Fi (802.11) Network Handbook by by Neil P. Reid and Ron Seide Amazon

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Objective: Wireless networks are untethering every bit of our life, ranging from digital broadcast over cell phones to jewelry tracking using RFID technology. This course aims at providing the students with a SYSTEMATIC knowledge of wireless networks, including physical layer techniques (signal propagation, coding, modulation, error control), link layer, network layer, transport layer, and applications. Various real life networks such as cellular networks, satellite networks, wireless lan, and wimax will be used to illustrate the design principles.

Course Content: The course will cover all the content in the text book with additional components/handouts for eanhancements.

Grading policy: There will be mid-term exam but no final. There will also be 4 quizzes during the semester, which will be announced at least one week ahead (NOT popup). Among the 4 quizzes, the one with the lowest point for a student will NOT be counted toward his/her final score.

- Quiz: 30%
- Exams: 30%
- Programming and Lab: 40% (Lab 1 5%, Lab 2 %5, Project 30%)

Projects and Programming : Projects in this course will be performed in two environments: simulation based projects over OPNET (c/c++ based) and real system programming over wireless devices (JAVA based).

Quiz and Exam Makeup: There will be no exam or quiz makeup. Missed exam/quiz will result in zero mark.

Accommodation Based on Disability: If you require any accommodation based on disability, please meet the instructor in the privacy of his office the first week of the semester to be sure you are appropriately accommodated.

Academic Dishonesty: Any academic dishonesty is intorelable. These include, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student, or the attempt to commit such acts. Any case of academic dishonesty will be handled according to the procedure as publised at http://www.uta.edu/studentaffairs/judicialaffairs/.