Wireless Communications & Networks
Fall 2013, CS Department, UNCC

Instructor:
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Office hour: Wednesday 1pm-2pm (or by appointments)

Teaching Assistant:
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Office Hours: Tuesday 10am-11am (or by appointments)

Time and Location:
Wednesday 2:00pm-4:45pm, Woodward, Room 135

Course Webpage:
The course website is available through Moodle2 (http://moodle2.uncc.edu/). All the course-related handouts, assignments, and announcements will be posted at the course website. Please check the course website regularly for new information.

Prerequisites:
Graduate standing in CS, SIS, ECE or Optics and a prior course in networking

Course Content:
The course provides an overview of mobile systems and wireless networking technologies. Emphasis will be on different wireless and mobile systems and basic resource management, routing and quality of service at the MAC and networking layers. Students will also survey the research literature and give a presentation on one selected research paper in wireless communication and networks.

Textbook:
There is no official textbook for this class. A reading list, including electronic copies of the papers, from recent conference proceedings and journals will be provided for some topics.

Reference Books:
Tentative Course Outline:
The following topics will be covered as time permits:
• Overview of Wireless Networks
• Fundamentals of Cellular Networks
• Cellular Networking (1G, 2G, GPRS, UMTS, 3G and Beyond)
• Wireless Local Area Networks (WLANs)
• Wireless Personal Area Networks (WPANs)
• Mobile IP
• Ad Hoc Networking
• Wireless Sensor Networks
• Wireless Mesh Networks
• Delay Tolerant Networks

Grading:
There will several written homework, 1 in-class presentation, a midterm exam, and a final exam. They will count toward the grade as follows:

- Homework 30%
- In-Class Presentation 15%
- Midterm 35%
- Final Exam 20%

However, the instructor reserves the right to make adjustments to these weights based on his a posteriori evaluation of the relative difficulty and fairness of the exams and homework.

Course Policies:
1) Class attendance is a responsibility of each individual. If a student chooses not to attend class, he/she is responsible for any handouts, announcement, and contents of missed lectures.

2) There will be no make-up exam. Students who cannot attend an exam with health emergency must show official proofs.

3) Assignments are due at the beginning of the class. Assignments will be graded and solutions will be provided. Late assignments are not accepted and will have a grade of zero.

4) All assignments are assumed to be an individual effort unless otherwise specified by the instructor.
5) If you end up doing poorly in the class, please DO NOT ask for "extra work" to raise your grade. This would not be fair to other students.