EEL 6935: Wireless Networks
Spring 2002

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Prerequisites: EEL 5718: Computer Communications.


Topics include:

1. Overview of wireless communication networks and protocols
2. The cellular concept: system design fundamentals
3. Brief introduction to wireless physical layer fundamentals
4. Multiple access control protocols for wireless systems
5. Wireless networking (routing/rerouting, wireless TCP/IP)
6. Handoff management and mobility management
7. Call admission control and resource allocation
8. Revolution/evolution towards future generation wireless networks
9. Wireless ad hoc networks

Grading: Homework-20%, Two exams-60%, and Project-20%. Projects: Three types of projects are possible (1) Survey of a new topic of current interest; (2) Carry out further study of a known problem appeared in the current literature (e.g., repeat or modify simulations or improved analytical results); (3) Propose own project topic (need approval of instructor).

Academic honesty statement: All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a student at the University of Florida and to be honest in all work submitted and exams taken in this class and all others.