

**ECE/CS 498 NHV (3 hours) and ECE/CS 498 NV4 (4 hours): Wireless Networks  
Spring 2007**

*Prerequisite: ECE/CS 438 Communication Networks or equivalent, or instructor's approval.*

*Only graduate students may register for the NV4 section (4 hours)*

**Instructor:** Nitin H. Vaidya, Phone: 265-5414 E-mail: [nhv@uiuc.edu](mailto:nhv@uiuc.edu)  
Office Hours: Wednesday 2:00 - 3:30 or by appointment, room 458 Coordinated Science Lab.  
Class: Tuesday and Thursday, 2:00-3:20 p.m.

**Teaching assistant:** Anthony Halley, E-mail: [ahalley2@uiuc.edu](mailto:ahalley2@uiuc.edu)  
Office hours: to be announced

**Course web page:** <http://www.crhc.uiuc.edu/~nhv/498nhv.spring07/>.

Please visit the course web page regularly to see course-related announcements, as well as assignments, project description, and other relevant information.

See instructions about the *course newsgroup* on the above course web page.

**Course material:**

- (textbook) Mobile Communications, by Jochen Schiller, Addison-Wesley (second edition).
- The textbook will be supplemented with notes provided by the instructor, and selected papers/reports from various journals, etc.

Some of the course material (e.g., selected notes) may be made available for purchasing at the photocopy center in Everitt Lab.

**Course Content:** Several topics related to wireless networking will be covered, including a brief overview of physical layer issues, and topics in cellular systems, medium access control, wireless capacity, mobile IP, routing protocols for wireless multi-hop networks, sensor networks, TCP over wireless networks, and wireless security.

**Grading policy**

- **For students registered for ECE/CS 498 NHV (3 hours):**  
Two mid-term tests : 40% (total for the two tests)  
Final examination: 35%  
Assignments: 25%
- **For students registered for ECE/CS 498 NV4 (4 hours):**  
Two mid-term tests : 30 % (total for the two tests)  
Final examination: 30 %  
Assignments: 15%  
Project: 25 %

The assignments will include homework problems, simulation exercises, and some hands-on experiments using wireless equipment.