

# CS396 Special Topics in Wireless and Sensor Networks

Spring 2006

*Time/Room:* Tuesday/Thursday 1:10pm-2:25pm, 132 Featheringill Hall

*Instructor:* Yuan Xue ([yuan.xue@vanderbilt.edu](mailto:yuan.xue@vanderbilt.edu))

Office: 383 Jacobs Hall, Phone: 615-322-2926

Office hours: Tuesday/Thursday 2:30pm-4:00pm or by appointment.

*TA:* Xianbin Wu ([xianbin.wu@vanderbilt.edu](mailto:xianbin.wu@vanderbilt.edu))

Office: 385 Jacobs Hall, Phone: 615-322-3233

Office hours: by appointment

*Web:* <http://vanets.vuse.vanderbilt.edu/~xue/cs396spring06/index.html>

*OAK:* <http://www.vanderbilt.edu/oak>

## *Course description*

Wireless network provides ubiquitous information access and resource sharing, which dramatically changes the way people compute and communicate. This course introduces the fundamental concepts, theoretical models and design principles, and explores the latest development and open research issues in wireless network algorithms, protocols, architectures, and applications.

## *Objective*

Through in-depth case studies on classic and recent research papers and semester-long innovative research projects, this course aims to help students to foster their research perspectives and abilities, as well as improve their presentation and writing skills.

*Credit:* 3 credit hours

*Prerequisite:* background in computer networks (e.g. cs283 or equivalent).

## *Grading policy:*

- Participation: 10%
- Presentation: 10%
  - Peer evaluation 5%, instructor 5%
- Review: 10%
  - 5 reviews
- Project: 70%
  - Proposal 5%
  - Background survey 20%
  - Design report 20%
  - Final report 15%
  - Presentation/Poster 10% (peer evaluation)