

# Sensor Networks (Spring 2004)

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**Class Time:** Tuesday and Thursday 9am-10:10am  
**Office Hours:** Tuesday and Thursday 10:30am-12pm

**TA:** Majid Ali Khan  
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**Office Hours:** Monday 2:00pm – 4:00pm and Friday 3:00pm – 5:00pm  
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**Prerequisites:** EEL 6785 (Computer Network Design) and/or  
EEL 4781 (Computer Networks)

**Textbooks:** No required textbook!



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## Reference Books:

1. Agrawal and Zhang, *Introduction to Wireless and Mobile Systems*, Thomson Brooks/Cole, 2003
2. Nicopolitidis, Obaidat, Papadimitriou, and Pomportsis, *Wireless Networks*, Wiley, 2003
3. Thurwachter, *Wireless Networking*, Prentice Hall, 2002
4. Stojmenovic, *Handbook of Wireless Networking and Mobile Computing*, Wiley, 2002
5. Selected research papers from journals, conferences and technical reports

## Course Objectives:

The course is designed for advanced level graduate students. The course objectives are to provide the students with an:

- understanding of current sensor networks theory and practice
- opportunity to work on projects related to applications of sensor networks
- experience on reading and writing research papers

## Course Description:

- Special Topics Course
- Survey of state of the art
- Design and development of various research topics



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## Class Project:

The class projects require

- design and simulation of a chosen research topic
- usage of one of the recommended network simulator packages for the simulation of the proposed algorithm and/or protocol
- verification of the simulation results with analytical analysis
- written report including the research project findings and
- Initial and final presentations

## Grading Scheme:

- Individual or group project (max. 2 students) => 55%
- Assignments => 15%
- Exam => 25%
- Attendance => 5%

No make-ups will be provided for missing any deadlines!

