

COURSE SYLLABUS
CS 514 - FALL2007
WIRELESS AD HOC AND SENSOR NETWORKS

Class Hours: Wed 9:40-10:30; Fri 10:40-12:30

Class Room: EA 502

Credits: 3

Instructor: İbrahim Körpeoğlu; Email: korpe@cs.bilkent.edu.tr;
Office: EA408; Phone: x2599; Office Hours: Anytime.

This course will cover some quite recent and still open issues in wireless and mobile networking. The topics that will be covered include wireless ad hoc networks, wireless sensor networks, wireless mesh networking, and wireless multimedia networking. The course will start with some basic information on wireless communication.

Since a course on wireless networking will be opened for undergraduate students in Spring 2008, CS 514 will not be open for undergraduate students.

Exams: There will be one midterm exam and one final exam.

Grading Policy:

Midterm: 25 %

Final: 25 %

Quizzes/Attendance: 10 %

Survey Paper: 40 %

Survey Paper: Groups will be formed. Each group will survey a topic and will write a survey paper at the end. Some suggested topics for surveys will be posted later. You can come up with your own topic and discuss it with the instructor. Upon his approval you can write your survey paper on your own topic.

In the first 2/3 of the semester, you will survey a topic and prepare a presentation. In the last 1/3 of the semester you will present your survey papers. Hence, you will be presenting the lectures in the last 1/3 of the semester. You will finish writing your survey paper by the end of the semester. You will get your grade from your survey paper. Your presentations will not be graded. In the final exam you will be asked questions from the survey presentations and papers of yourself and others.

Tentative Schedule:

Week		1hr			2hrs			Sun	Topics
		Mon	Tue	Wed	Thu	Fri	Sat		
1	Sep	17	18	19	20	21	22	23	Wireless basics
2	Sep	24	25	26	27	28	29	30	Wireless basics
3	Sep/Oct	1	2	3	4	5	6	7	Ad hoc networks
4	Oct	8	9	10	11	12	13	14	Ad hoc networks
5	Oct	15	16	17	18	19	20	21	Ad hoc networks
6	Oct	22	23	24	25	26	27	28	Sensor networks
7	Oct/Nov	29	30	31	1	2	3	4	Sensor networks
8	Nov	5	6	7	8	9	10	11	PaperDiscussions (1 hour); Review (2 hours)
9	Nov	12	13	14	15	16	17	18	PaperDiscussions (1 hour); Midterm (2 hours)
10	Nov	19	20	21	22	23	24	25	PaperDiscussions (1 hour); Wireless mesh networking
11	Nov/Dec	26	27	28	29	30	1	2	Paper Discussions (1 hour); Wireless mesh networking;
12	Dec	3	4	5	6	7	8	9	Presentations; Wed:G1; Fri: G2, G3
13	Dec	10	11	12	13	14	15	16	Presentations; Wed: G4; Fri: G5, G10
14Tu	Dec	17	18	19	20	21	22	23	
14Mo,We	Dec	24	25	26	27	28	29	30	Presentations; Wed: G7; Fri: G8 G9
14Th,Fr	Dec/Jan	31	1	2	3	4	5	6	Presentations; Wed: G6; G11, G12.
	Jan	7	8	9	10	11	12	13	Final exam
	Jan	14	15	16	17	18	19	20	
	Jan	21	22	23	24	25	26	27	22: last date to submit grades

Sep 28: Last day of add/drop
Oct 11-12: Holiday
Oct 29: Republic Day
Dec 7: Last day to withdraw
Dec 19-21: Holiday
Dec 31-Jan 2: Holiday
Jan 7-19: Finals
Jan 22: Last day to submit grades

Important Dates:

Nov 16, 2007, Friday: Midterm exam

Jan 9, 2008, Friday: Final exam (at 12:00 (noon); in Room EA 502)

Oct 1, 2007: Instructor posts possible survey topics

Oct 5, 2007: Topics determined

Nov 30, 2007: Presentations given to the instructor

January 4, 2007: Final papers given to the instructor