

# STANFORD UNIVERSITY

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## Tentative Syllabus EE 359 - Wireless Communications - Fall 2005

Lecture	Date	Topic
<u>Introduction</u>		
1	9/25	Overview of Wireless Communications.
<u>Wireless Channel Models</u>		
2-3	9/27-10/3	Path Loss and Shadowing Models.
4-5	10/5 – 10/10	Statistical Fading Models. Narrowband Fading.
6	10/12	Wideband Fading Models.
<u>Wireless Techniques and Their Performance.</u>		
7	10/17	Capacity of Wireless Channels.
8-10	10/19-10/26	Digital Modulation and its Performance.
11	10/31	Diversity
12	11/2	Adaptive Modulation.
13	11/7	<i>First Exam (11-1 pm).</i>
14	11/9	Practical Considerations in Adaptive Modulation.
15	11/14	Multiple Input/Output Systems (MIMO).
16	11/16	Adaptive Equalization.
17	11/28	Multicarrier Modulation and OFDM.
18-19	11/30-12/5	Spread Spectrum, CDMA, and Multiuser Systems.
<u>Wireless Networks.</u>		
20	12/7	Wireless Networks. Course Summary.

### Comments

- The class project is due on 12/9. Extensions of a few days may be possible.
- The second exam will Wednesday, December 14, 9:30am-11:30am (this is during our scheduled final exam slot).