

STANFORD UNIVERSITY

Tentative Syllabus EE 359 - Wireless Communications - Fall 2009

Lecture	Date	Topic
<i>Introduction</i>		
1	9/23*	Overview of Wireless Communications.
<i>Wireless Channel Models</i>		
2-3	9/25* – 9/28	Path Loss and Shadowing Models.
4-5	9/30 – 10/5	Statistical Fading Models. Narrowband Fading.
6	10/7	Wideband Fading Models.
<i>Wireless Techniques and Their Performance.</i>		
7	10/9*	Capacity of Wireless Channels.
8-10	10/19 – 10/23*	Digital Modulation and its Performance.
11	10/26	Diversity
12	10/28	Adaptive Modulation.
13	11/2	<i>Midterm (Scheduled outside class time.)</i>
14	11/4	Practical Considerations in Adaptive Modulation.
15	11/9	Multiple Input/Output Systems (MIMO).
16	11/11	Adaptive Equalization.
17	11/16	Multicarrier Modulation and OFDM.
18	11/18	Spread Spectrum and CDMA.
19	11/30	Multiuser systems and wireless networks.
<i>Wireless Networks.</i>		
20	12/2	Wireless Networks. Course Summary.

Comment

There is no class on 9/21 (first day), 10/12, 10/14. We will have makeup lectures on Fridays 9/25, 10/9 and 10/23. The makeup lecture will be tentatively from 12:10-1:40pm and will have free pizza for lunch at noon.