

Syllabus for Wireless Communications

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- Instructor
 - Prof. Wha Sook Jeon
- Course Meeting Time
 - 2 sessions/week, 1.5 hours/session
- Level:
 - graduate

■ Textbook

- Wireless Communications, Cambridge, Andrea Goldsmith

■ Course Description

- The aim of this course is to provide a unified overview for wireless communications to the students whose major is Computer Science & Engineering
- The lecture series emphasize **basic principles** of wireless communications

Calendar

Week #	TOPICS
1	Wireless Channel Model (Path loss & Shadowing)
2	Wireless Channel Model (Multipath Fading)
3	Capacity of AWGN Wireless Channel
4	Capacity of Wireless Fading Channel
5	Digital Modulation and Detection
6	Performance of Digital Modulation over Wireless Channels
7	Diversity
8	Combining Techniques, Midterm Exam.
9	Linear Block Code
10	Convolutional Code
11	Multicarrier Modulation
12	OFDM
13	Adaptive Modulation and Coding
14	Spread Spectrum
16	DSSS, Final Exam.