

OSE 801 Spring 2010: Engineering System Identification

The schedule below will be updated throughout the semester. Last update: January 26, 2010 (KCP).

Lecture	Date	Instructor	Lecture topics	Assignments/Comments
Week 1	01-05 February	Park	Introduction to System Identification.	
Week 2	08-12 February	Park	Identification Process and Examples.	
Week 3	15-19 February	Park	Identification Models: Time and Frequency Domain Models.	
Week 4	22-26 February	Park	Markov Parameters.	
Week 5	01-05 March	Park	Fourier Analysis and Fast Fourier Transform.	
Week 6	08-12 March	Park	Wavelets and Fast Wavelet Transform.	
Week 7	15-19 March	Park	Frequency Response Functions via FFT.	
Week 8	22-26 March	Park	Mid-Term Examination	
Week 9	01-05 April	Park	Impulse Response Functions via FWT.	

Week 10	08-12 April	Park	Signal Processing, Noise and Filtering.	
Week 11	15-19 April	Park	Eigensystem Realization Algorithm (ERA).	
Week 12	22-26 April	Park	OKID Identification Algorithm.	
Week 13	01-05 May	Park	System Identification Practice.	
Week 14	08-12 May	Park	PCA, ICA, Hilbert-Huang Transform, etc.	
Week 15	15-19 May	Park	Final Examination	