

34020	ELC 5356-01	Stat & Adaptive Signal Proc	3	TR	ROGERS 207	11:00 AM – 12:15 PM
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Instructor: Liang Dong
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Office Hours: TR 3:30 p.m. – 5:00 p.m.; other by appointment

Course Description:

Prerequisite(s): ELC 5354 Random Signals and Noise

Unified introduction to the theory, implementation, and applications of statistical and adaptive signal processing methods. Key topics focus on spectral estimation, signal modeling, adaptive filtering, and signal detection.

Textbooks:

Statistical and Adaptive Signal Processing: Spectral Estimation, Signal Modeling,
 Adaptive Filtering and Array Processing
 by Dimitris G. Manolakis, Ingle, and Kogon
 ISBN-10: 1580536107 ISBN-13: 978-1580536103

Statistical Digital Signal Processing and Modeling
 by Monson H. Hayes

Fundamentals of Statistical Signal Processing, Volume I: Estimation Theory
 by Steven Kay

(These are reference books. There will be seminal papers recommended during the semester.)

Homework and Exams:

There will be homework assignments and after-class reading assignments.
There will be one in-class midterm exam and one final exam.

Midterm Exam	11:00AM – 12:15PM Tuesday, March 14, 2017
Final Exam	According to University Final-Exam Schedule

Performance Evaluation:

- Homework 10%
- Class Discussion and Reading Assignments 20%
- Midterm Exam 30%
- Final Exam 40%