NAME:

EE538 Digital Signal Processing I Fall 2014 Exam 1 Friday, Sept. 29, 2014

Cover Sheet

Write your name on this and every page

Test Duration: 60 minutes.
Coverage: Chapters 1-5.
Open Book but Closed Notes.
Calculators NOT allowed.
This test contains **three** problems.

Show your work in the space provided for each problem.
You must show all work for each problem to receive full credit.
Always simplify your answers as much as possible.

Prob. No.	Topic(s)	Points
1.	Frequency Response and Interconnection	35
	of LTI Systems, Pole-Zero Diagrams	
2.	DT Autocorrelation, Cross-Correlation	30
	and their Related Properties	
3.	LTI Systems: Expressing Cross-Correlation	35
	in terms of Convolution	