

NAME:

EE538 Digital Signal Processing I
Exam 1

Fall 2018
Friday, Sept. 28, 2018

Cover Sheet

Write your name on this and every page

Test Duration: 60 minutes.

Coverage: Chapters 1-5.

Open Book but Closed Notes.

Allowed one double-sided 8.5 x 11 handwritten or typed crib sheet

Calculators NOT allowed.

This test contains **TWO** 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 of LTI Systems Pole-Zero Diagrams DT Autocorrelation, Cross-Correlation and their Related Properties	60
2.	LTI Systems: Autocorrelation and Cross-Correlation and their Related Properties	40