ECE 438 Digital Signal Processing
Week 7: Discrete Fourier Transform and Fast Fourier Transform Algorithms (lab 6a)

Date _____

Section ____

Name		Sign	Time spent outside lab
	[%]		
	[%]		

Grading Rubric (Spring 2020)

	below expectations	lacks in some respect	meets all expectations
Completeness of the report			
Organization of the report *One-sided, with cover sheet, answers are in the same order as questions in the lab, copies of the questions*			
Quality of figures *Correctly labeled with title, x-axis, y-axis, and name(s)*			
Understanding the effects of truncating the signal on its DTFT (20 pts) *Magnitude and phase plots, hamming/rect windows, questions*			
Implementation of DFT and inverse DFT (40 pts) *Matlab codes, frequency and time-domain plots, analytical expressions*			
Implementation of DFT and IDFT using matrix multiplication (30 pts) *Matrices A,B,C, matlab codes, plots, questions*			
Computation time comparison (10 pts) *Runtimes, questions*			