

ECE 438 Digital Signal Processing

Week 10: Number Representation and Waveform Quantization

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 <i>One-sided, with cover sheet, answers are in the same order as questions in the lab, copies of the questions</i>			
Quality of figures <i>Correctly labeled with title, x-axis, y-axis, and name(s)</i>			
Understanding and implementation of uniform quantizer (45 pts) <i>Image: original and quantized images, comparison, questions</i> <i>Audio: matlab figures, questions</i>			
Understanding of error analysis (35 pts) <i>Error histograms, correlation, PSNR, rate-distortion curve, questions</i>			
Understanding of max quantizer (20 pts) <i>Histograms, PSNR, comparison with uniform quantizer</i>			