

# ECE 438 Digital Signal Processing

## Week 3: Frequency Analysis

Date \_\_\_\_\_

Section \_\_\_\_

Name	Sign	Time spent outside lab

### Grading Rubric (Fall 2019)

	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</i>			
Quality of figures <i>Correctly labeled with title, x-axis, y-axis, and name(s)</i>			
Ability to compute Fourier series expansion and synthesize periodic signals using the expansion in Simulink (26 pts) <i>Derivation and sketch, plots of synthesized signals, questions</i>			
Understanding of modulator and CT system analysis (26 pts) <i>Output plots, questions</i>			
Implementation of DTFT (21 pts) <i>Matlab function, DTFT's magnitude and phase plots</i>			
DT system analysis (27 pts) <i>Exercises in 5.2, completed block diagram, table of measurements, impulse and frequency response</i>			