DIGITAL SIGNAL PROCESSING
EE630, Fall 2014

Course covers basic concepts of Digital Signal Processing and gives the student the opportunity to apply and visualize these concepts using computer graphic techniques.

LECTURE AND HOMEWORK:
Coverage will include Discrete-Time Signals, $Z$-transforms, discrete-time system modeling, digital filter design, Discrete Fourier Transform, Fast Fourier Transform, sampling theory and Digital Signal Processing implementation.

VISUALIZATION TASKS: As part of the homework assignments, the students will implement a series of tasks using MATLAB. These tasks are tutorials which typically yield graphical outputs allowing the students to visualize underlying concepts of specific problems.

PROJECTS: Accumulative project sequence in place of final exam. See graphic to left.

Web Site: Dr. L. G. Hassebrook
http://www.engr.uky.edu/~lgh/classes/classes.htm