**ECE 3822: Engineering Computation II**

# Homework No. 12: Python Scripting

**Goal:** The goal of this homework is to repeat the audio processing example of HW No. 4 using Python. Rewrite your audio play program in Python. Compare and contrast the two approaches.

Your Python version must support a “-help” option. It must also save its state between runs. If the program terminates playing the 27th file for the third iteration of 100, and has 63 files remaining to be played for the 100th iteration, it must play those 63 exactly once before it starts over again. Any time the program is killed it must resume from where it left off.

Implement this program using classes in Python. Your class should have supporting member functions such as “play”, “check\_options”, etc. Your main program should be very simple. The class should do the heavy lifting.

Submit your solution in this directory: /data/courses/ece\_3822/current/homework/hw\_12/<lastname>. The driver program should have a name “myprog.py”.