

# 6: ECE Concept #4/4

## ECE 403: Homework #7

**One report per student** (separate pages in OneNote for each student)

Update your OneNote document to include the following for each section (each student):

Document your work on your tasks including

- A short description of your task (next item on your 403 to-do list)
- What advanced ECE topics you applied in this task  
*could be none. could be several*
- Paper design: calculations, values of components, flow charts, program listings
- Simulation: Circuitlab simulations (if applicable)
- Final Testing  
*breadboard results (hardware - include photos)*  
*test code and test results (software)*

### Grading

In ECE 405, your grade is based upon how far along your project gets (knocking off your tasks)

In ECE 403, your grade is based upon your ability to apply knowledge of ECE four different ways. For each advanced ECE topic (could be several in a given task):

- 10 points: One-Note documents A-level knowledge along with an ability to apply this knowledge on a topic. Typically this would include calculations, simulations verifying calculations, and ideally hardware data.
- 8 points: Demonstrate B-level knowledge on topic. Demonstrate decent knowledge of topic but some area are weak.
- 6 points: Demonstrate C-level knowledge. Missing calculations and/or simulations. Missing explanation of how the circuit and/or program works.
- 4 points: Demonstrate D-level knowledge. Able to simulate a circuit or run a program, but missing explanation of how it works and where values came from.
- 0-3 points: Minimal knowledge of topic demonstrated (or does not demonstrate knowledge of that ECE topic.)