

# ECE 331

## Homework 8

See course web site for due date

Place your typed homework answers in vim. Print single sided with your name using a **mono space font**. No need to restate questions. Fully investigating questions is required for a higher grade. Please use the kernel coding style for all code. Please use your RPi for developing answers. Although code should be written and run on a RPi, it should run on ANY POSIX compliant OS. As always, all code shall be comment, conform to the Linux Kernel Coding Style, and error conditions shall be checked and appropriately handled.

Work on the kernel driver code such that it has a valid `file_operations` structure, and `open` and `release` functions, and accepts data passed from user space. Have the `open` function properly handle different file open modes. Have the data passed from user space be copied into an dynamically allocated kernel buffer. Have your code demonstrate that the that data passed from user space was correctly copied.

For your answer, print your Makefile, kernel driver source code, and user space test program.