



EEL 4744

Final Exam

Final Exam:

- Sat, 27 Apr
- 12:30pm
- Honorlock w/ Zoom



See [Rules and Policies](#) – [Final Exam](#)

Use group configurations and bit masks whenever possible!

- 120 minutes
- Questions require **understanding**
- Questions deal with “**real stuff**”
- Relevant topics include:
 - Labs 0-8; HW 0-4
 - Class notes
 - Atmel Studio, *DAD*
 - Keypad, LCD, System Clock
 - Timers
 - Interrupts (External, SCI, SPI, TC, ...)
 - Serial Communication: SCI & SPI
 - Hardware Expansion w/ bus (EBI)
 - Assembly, C
 - ADC, successive approximation, DAC
 - Events, DMA
 - Multitasking
 - Etc.



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What to have Available at the Final Exam

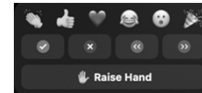
- Bring the following to the practical:
 - > **Your PC, with web cam & speakers** (no headphones or earbuds)
 - > Two pieces of scratch paper, with nothing written or printed on either side
- Just like Lab Quizzes, you will be provided with the course documentation and
 - > Microchip/Atmel Studio documents (including manuals, include file and header file), ASCII table
 - > µPAD schematic, spec sheet for 74’573, 74’574, RAM
- Also like Lab Quizzes, you can use the Canvas Calculator
 - > But better to use the **assembler/compiler** as a calculator



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Zoom for Questions During Exam

- Prior to opening Honorlock, connect to our **normal** Lab Quiz Zoom link.
 - > Log in to UF's Zoom (with 2-step authentication) <https://ufl.zoom.us/>. Use your **FULL** name in Zoom.
 - > In Zoom, be sure to turn off your video before opening Honorlock.
- Do not attempt to chat with your classmates.
- If you have a question, “raise your hand”.
 - > In Zoom, select **Reactions** and then **Raise Hand**.
 - > Shortcuts for **Raise Hand**
 - For Windows, select **Alt-Y**; for Mac, select **Option-Y**.
 - > Dr. Schwartz or one of the PIs will initiate a **private chat**.
 - > Be patient; there may be several students before you.
 - > When Dr. Schwartz or a PI start the chat, immediately specify the question number, part, paragraph number, the sentence number, and finally **ask the question**



Reactions

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EEL 4744 Immediately Prior to the Practical

- Below has been shown to prevent problems that have happened to a few students in the past. It wouldn't hurt and could save some aggravation.
 - > Verify that you have your UF ID, passport, or driver's license (for the Honorlock scan).
 - > Clear your cache in Chrome.
 - Reinstall the Chrome Honorlock Extension.
 - Close then reopen Chrome.
 - > Verify that you have the files that you need (and are allowed) available from your desktop.
 - > Reboot your computer.
- Be sure that there is enough light for your face to be clear during the exam (for Honorlock). If not, find a lamp or a different area.

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Immediately Prior to the Practical

- Close **all programs/applications** other than Chrome.
- Close **all Chrome tabs** other than Canvas.
- Turn off any potential pop-ups that could occur during this assignment.



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Losing Internet Connection

- If you ever have WiFi or other internet connection problems just before or when your practical begins, use your **phone** to connect to Zoom.
 - > “Raise your hand” and then Zoom chat with a PI.
 - Describe the issue and continue to try to get back in!
 - The PI will contact Dr. Schwartz.
 - > **As an emergency backup (if your internet goes out), you should learn how to setup your phone as a WiFi hotspot.**



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Honorlock Problems

- If you are having problems with Honorlock, contact Honorlock and keep trying!
- Use Zoom chat with Dr. Schwartz or the relevant PI after “raising your hand.”
 - >The PI will contact Dr. Schwartz.



EEL 4744 Honorlock Room Scan, if Requested

- The room scan should be thorough and take about one minute. See [Honorlock: Proper Room Scan](#) (on the front page of our website).
 - >Be sure to how your desk, computer monitor, walls, floor near your computer, and ceiling.
- In addition to the complete room scan, show each of the following:
 - >Both sides of scratch paper
 - >Your breadboard



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Honorlock During Final

- In Honorlock, you must share your computer screen, video, and audio at all times.



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Finishing your Final

- After you have submitted your Final in Canvas, close Honorlock and Zoom.
> You are done!



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The End!