

IOT Online Instructions

Due to the continuing fears of the Covid-19 outbreak, we will be offering the IOT course online following University policies. This document is our first pass as to how the course will work and our expectations for all of us as the situation evolves. This procedure and process will more than likely evolve, but will be tracked in this document. As with all our other class material, this can be found in the class github repository.

<https://github.com/Daniel-Pivonka/iot/tree/master/spr2020>

Online Class Access

We will be using the online access tools that Daniel and I know well. It is a heavily utilized tool and has long proven to be pretty effective. You'll need a laptop that contains a microphone, speakers, and a camera. (You can use a headset and external camera as well. A smart phone can also give access, but will not be good for you to present your project proposals.)

The link to the meeting is: <https://bluejeans.com/7915951995>

We believe you'll find it very intuitive. It has the features required for us to hold the class. It also gives us the ability to record the class, even though we're not encouraging missing the live sessions. It has a chat area, screen sharing, participant lists, and a master mute for me. It does require some attention and discipline to be sure that you have your microphone muted if you're not speaking (otherwise, the echo in the audio is painful). I can use the master mute if necessary, but prefer not to. This conferencing system works well with networks that have only moderate bandwidth.

I'll schedule a couple of time slots to test the system prior to class start on Wednesday (probably during the day on Tuesday). These are optional, but could be useful (for you and us) if you want to make sure you can connect appropriately. The proposed test connect times are listed below. Class attendance is still a mandatory part of your grade, so please find a way to connect at class time on Wednesday, 3/18 at 2:00 PM. Reach out to us if you are concerned about not being able to attend we will make something work.

Online Tool Connectivity Tests

Tuesday 17th 3:00pm and 4pm

If these times don't work for you, please text Daniel (number below) and he will figure out a time to work with you.

Class Agenda this week

The schedule has you presenting your IOT project proposal. This is still a part of your grade and we intend on getting through them Wednesday. Each student will have 10 minute to present the project, receive feedback, and answer questions. There is an order for presentations below (randomly generated) please be ready to go.

End of year project

The project is still part of the class and required to be presented in a video format in the last class of the semester. We feel this is reasonable, since no one really uses the lab for this.

The logistics issue to solve is getting you your required HW, so you can complete the project. We are confirming that the lab will be open, so will use that as a drop spot for HW exchange. We'll clearly label the material so you can go into the lab to pick it up.

For those not living nearby, let's come up with a plan. Maybe we ship the material or order it to be directly shipped to you. We can negotiate on an individual basis.

The difficult part will be device support by Daniel and I when issues occur (and they will). With the appropriate use of NGROK, and SSH enablement, we should be able to help.

Conclusion

Personally, I don't think we'll be back to class this semester, but I sincerely hope I'm wrong. This online class process will evolve as we learn what works and doesn't. This is real world education taken to another level. Let's still have fun with this class and make it work for you. Please give honest feedback so we can alter processes when necessary.

Thanks,

Jeff, Daniel, and Bill

Jeff (508)-614-5187

Daniel (978)-995-5343

Presentation order:

1. chukpozohn_toe
2. sean_nishi
3. christopher_odom
4. cameron_knopp
5. Danny Nguyen
6. nicholas_avtges
7. kyle_joaquim
8. elick_coval
9. christopher_goulart
10. jason_moynihan
11. david_nguyen
12. ryan_johnson
13. jasen_ripley
14. michael_treacy
15. karamela_quitayen