As announced on February 7th 2021 the campus COVID-19 operational posture is now “High Risk”
https://www.umass.edu/coronavirus/operationalposture#high.

Therefore, there is no access to SDP lab or M5 while we remain in this state. 
SDP21 will proceed in a remote format over these next two weeks.

Topics covered in this announcement portion of today’s lecture:
● Revised calendar
● Remote Logistics (purchases, parts & equipment, soldering)
● Working remotely as a team
● Clarification of the FPR embedded firmware/software policy will be discussed at the end of lecture

For immediate specific logistical concerns, post a message to your team[#]-and-course-coordinator channel on Slack.

Additional questions -- ask after lecture
# Revised calendar

## February 2021

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<td><strong>Classes Begin</strong>&lt;br&gt;<strong>Lecture 7</strong>&lt;br&gt;(CDR prep)</td>
<td><strong>Lecture 8</strong>&lt;br&gt;(Design of Experiments)</td>
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<td>Lecture 9&lt;br&gt;(Alumni)</td>
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<td>Lecture 11&lt;br&gt;(CDR)</td>
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UMassAmherst College of Engineering Electrical and Computer Engineering
Revised calendar

April 2021

Sun Mon Tue Wed Thu Fri Sat
4 5 6 7 8 9 10
Lecture 12 (FPR)
Check-In #6 w/ PCBA demo
Check-In #6 w/ PCBA demo
Check-In #6 w/ PCBA demo
Draft SDP report due

11 12 13 14 15 16 17
Wellbeing Wednesday

18 19 20 21 22 23 24
FPR FPR FPR FPR FPR

25 26 27 28 29 30 1
Demo Day
Logistics of switching to fully remote until at least February 21st 2021

- **Purchasing:** It *may be possible* for orders to be shipped directly to your address. @Keith Shimeld on your team’s Slack purchasing channel.
- **Curbside pick-up:** A pick-up/drop-off box outside M5 will facilitate no-contact curbside pick-up of purchases, parts, equipment, so on.
- **Soldering:**
  - Discuss with Shira via Slack, Zoom to figure out exactly what you need
  - Shira will assist you with creating the assemblies that you need soldered now in order to continue working
  - Drop off parts to be assembled, pick up final assembly after notification from Shira from the pick-up/drop-off box
Working remotely as a team

● FPR has not been delayed. Continue working.
● Think creatively about remote work. Some ideas:
  ○ Order multiple copies of modules so each team member can work on the same development environment and independently test and debug. If your team needs more funding than your original $500 budget, make a formal request to the teamxy-and-course-coordinator channel.
  ○ If only one system copy is feasible, considering consolidating to one location.
    ■ Team members without the hardware are 100% capable of contributing to the work:
      ● Writing code
      ● Doing research. Analyzing data. Designing tests.
      ● Designing the schematic and PCBA
      ● Working via Zoom to assist the team member with the hardware (get a webcam or use your phone, be creative with camera angle)
  ○ Stuck? Ask for help: Team members, faculty advisor, Dr. Malloch, course coordinators
Additional questions?
Stick around after lecture, or post to Slack after.
Hardware Requirement [From Lecture 2, slide 20]

- Prototype rapidly for MDR.
- Use solderless breadboards, development boards & breakout boards for MDR.
- Development & breakout boards not allowed at FPR and demo days.
  - including Arduino, mbed and no-operating-system 8-bit and 32-bit dev boards.
  - instead, migrate your MDR design onto your custom PCB and migrate your Arduino code to ANSI C code.
Clarification of the FPR embedded firmware/software policy

If your team has an exception request post it to your team-xy-and-course-coordinator Slack channel

- Migrate your “Arduino” code to C
  - Don’t use “Arduino” functions, for example: digitalWrite(), analogWrite(), pinMode()
  - You can include libraries which you explicitly invoke in your code
- You can use the bootloader still if you find it convenient
- You can use the Arduino IDE if you find it convenient, but consider it has very few features

All your code will have to be on GitHub (*if for some reason your code must remain private, you can make a private repository and find a way to share it only with team members, advisor, evaluators, and course coordinators)