

MATH 2B: Applied Linear Algebra

Class 21: Monday 6/14/2021 (Week 11)

In-Class Meeting: 1:30PM – 3:45PM

IN-CLASS ANNOUNCEMENTS AND PLAN:

Important Academic Registration Dates and Add/Drop Deadlines:

1. We have 1 week of regularly scheduled class and then final exams week (no regular classes during finals week) with in-class final meetings.
 - a. Please check the [Foothill Final Exam Schedule](#) for more information.
 - b. Our Math 2B class will have one final in-class meeting during the regularly scheduled final exam on Wednesday 6/23/2021 from 1pm - 3pm.
 - c. We do NOT have a class meeting on Monday 6/21/2021. This is during finals week and there are no regularly scheduled classes during that week (only final exams).
2. Your Math 2B **learning portfolios** (evidence of your learning from Lessons 0 - 18) will be due by Wednesday 6/16/2021. To pass this class, I expect that everyone of you finishes material up through Lesson 16. Today, let's take a look at some of the portfolio submissions from last quarter to see examples of what this might have looked like.
3. For those of you that will be submitting work on the LANA project, I'll collect your solutions on Wednesday 6/23/2021. Here are some resources to help you navigate the LANA Project:
 - A. [What do I turn in from the LANA project?](#)
 - B. [How to use the P-Block power sources?](#)
 - C. [LANA Example 3 Circuit](#)
 - D. Natalie's MultiSim Circuit Simulation resources
 - [LANA Example 2](#)
 - [LANA Example 3](#)
4. The absolute latest that you might submit LANA solutions would be Sunday 6/27/2021 at 11:59pm... However, if you plan to submit after Wednesday 6/23/2021, please speak to me about this plan so that I know to expect your work after that date.

5. Below is an updated list of all students in this class. In this list, you can get a sense of

Have access to lab kits:

- Jeff (example responses for today's journal entry)
 - i. **Current Progress:** LANA Playlist 1
 - ii. **Goal:** Finish all of the LANA Project
 - iii. **I need help** figuring out how best to support my students and get you networked together.
 - iv. **I can help** others take measurements and get comfortable with the lab materials. I can also help understand the algorithm and apply it to Example 3 Circuit.
- Radha
 - i. **Current Progress:** Finishing portfolio and LANA Example 1
 - ii. **Goal:** Submit portfolio by tomorrow and finish LANA Example 1 by Wednesday
 - iii. **I need help** with understanding the physics behind the project so I can better understand the linear algebra being applied to it.
 - iv. **I can help** with taking measurements and building the circuits.
- Alex T. (Lesson 18, will start LANA soon)
- Ivy
 - 1. Current Progress: Finished Lesson15
 - 2. Goal : Finish LANA project 2A maybe?
 - 3. I need help with doing the LANA project physics part because I didn't take any physics lessons before.
 - 4. I don't really know what I can help with because I didn't read through material on the LANA project yet.
- Sean
 - i. Current Progress: LANA Playlist 1, Portfolio completed
 - ii. Goal: Complete all of LANA
 - iii. I need help understanding what I need to do/what pace I have to go at to complete the LANA project
 - iv. I can help with doing calculations
- Summer (Lesson 18)
 - i. Current Progress: Lesson 18
 - ii. Goal: Complete most of LANA if possible, maybe even do some application of LANA to my current major (will be talking to Jeff today about it)
 - iii. I need help understanding LANA as a project and how I can take the project to the next level for my learning. Also, I need help finding others who I can work on LANA with.
 - iv. I am not sure if I am able to help others just yet but I am happy to once I get the hang of things.
- Cary (Lesson 16)
 - i. Current Progress: Lesson 16
 - ii. Goal: Do a significant portion of LANA, maybe finish it

- iii. I do not know what I need help on with regards to LANA because I haven't started it, I will know once I start working on it.
 - iv. I don't know what I can help others with since I haven't started LANA.
- Xuechi
 - i. Current Progress: LANA Playlist 1, tidying up portfolio
 - ii. Goal: complete the entire project
 - iii. I need enough time to get LANA all completed.
 - iv. I am willing to help to the best of my abilities.
- Kojiro Asano
 - i. **Current Progress:** LANA Playlist 2
 - ii. **Goal:** Finish all of the LANA Project
 - iii. **I need help** what I need to do
 - iv. **I can help** giving my data to others.
- Daniil Kiryashov (L12)
- Ivana (Lesson 15)
 - i. Lesson 17
 - ii. Finish all of 2A(example 1)
 - iii. I may need help on the LANA project, but I have not yet started yet as I am still finishing up my lessons.
 - iv. I can help with helping others take measurements since I have the material at hand.
- Megan (Lesson 18, starting LANA Playlist 1)
- Hao (Lesson 15)
 - i. Current Progress: Lesson 16 and LANA Playlist 1
 - ii. Goal: Finish at least part 2 of the LANA Project
 - iii. I may ask for the TAs' and my crew mates and possibly my classmates from other groups for help on the LANA Project.
 - iv. Since I have the lab kit on hand, I can help others with the physical aspect of this project.
- Jennifer
 - i. (Lesson 16 LANA Playlist 1)
 - ii. Playlist 3 (not sure if I can go there, but that is more goal)
 - iii. I can't say what I need help with yet
 - iv. I can help with the circuits (or try to)
- Kelvin Tsui (Lesson 17, starting LANA playlist 1)
- **Current Progress:** LANA Playlist 1
- **Goal:** Finish 2B of LANA. Will do my best to try and do more, very busy few weeks as 6 classes finals are all clashing.
- **I need help** with understanding more about this project by watching all the introductory videos and reading all the material provided about LANA

- **I can help** by assisting anyone that may be struggling and i can do my best to help that I can.
 - Angel (Lesson 18)
 - a. Current Progress: LANA 1
 - b. As far as I can get with Playlist 3
 - c. Not sure until Lana 2
 - d. I can help with discussing the project or comparing data
 - Jade

Current Progress: LANA Playlist1

Goal: Finish Problem 2A & 2B of the LANA Project

I'm not sure what I need help with yet since I've not started the project.

I can share my lab kits or data if anyone needs.
 - Theo Hsiung (Lesson 18)
 - i. Just finished Lesson 18, still have to scan some lessons by Wednesday
 - ii. My goal for the class is to get through LANA Playlist 3, and see where that takes me.
 - iii. I may need help with the LANA project, but because I have yet to start I'm not sure what I need help with just yet
 - iv. I can help others who are going through the Lessons playlist, since I feel like I have a comfortable understanding of it.

No access to lab kits

- Alex B.

Current Progress: Finishing Lesson 16, watching through LANA Playlist 1

Goal: Finish all of the LANA Project with my group

I need help understanding the ins-and-outs of circuitry.

I can help with the calculations!
- Adrian (Lesson 15)
- Owen (still finishing up the lessons and organizing)
- Zach (LANA playlist I,II)(I am not sure how long the project will take, but I hope to finish as much as possible.)
- QiJun
- Huston (lesson 16-17)
- Xuhan Chen (lesson 18)
- Anderson Lam(Lesson 18, LANA playlist I,II, Hopefully i can finish the project before the due date)
- Murphy Song (Lesson 16)
- Rachel How (Lesson 16)
 - i. currently on lesson 18, LANA playlist 1
 - ii. Try to finish LANA playlist 2

iii. I am still not sure what I need help with yet

iv. I can't help with the circuits

- Taishi Fukuda (Lesson 14)

Not working on LANA : work on a different applied project or spoke with Jeff

- Muzafar: Cryptography (Lesson 18)
- Erik: Economics applications (lesson 18)
- Abdullah: schedule challenges in spring 2021 and figuring out larger purpose

IN-CLASS JOURNAL ENTRY:

1. Update your progress on the lists under point 5 above.
2. Next to your name, identify how far you anticipate you'll get in the LANA project.
3. Start to form LANA project working groups. For each of your regular groups, identify and contact at least one other group that is around the same place as you in the LANA project. Make a plan to contact that group to get updates and work as a team to make progress over the coming days in this class.
4. As you prepare for your LANA Project submissions, please identify your concerns: what help do you anticipate needing in the coming 10 - 13 days?
5. How can our classmates, the TA's, and Jeff help you make meaningful progress on your LANA project submissions over the next 1.5 weeks?
6. How might you help your classmates? What kind of support can you provide to other students in this class?

Room 1: The 4s

6. Wenying

10. Sean

15. Theo

25. Taku

Room 2: The Transfers

5. Alex B.

1. My group will probably get through all of the LANA project!
2. For the rest of the class time, my main concern is balancing spending time with family and my schoolwork - I know that I'll be finishing Linear Algebra over the summer to prepare for upper division courses so I want to make the most of my last 2 weeks with my family.
3. My teammates and I are collaborating on this project which is going to make these submissions a bit easier!
4. I can help my classmates with any questions they have on material - I can't guarantee that I'd know it off the top of my head but am always ready to revisit the lesson notes.

13. Radha

1. Finishing portfolio and LANA Example 1
2. I want to at least get through LANA example 2. I hope that working as a group will help us get further than that, but I'm not sure.
3. N/A
4. I'm not too sure what help we'll need quite yet. So far things are going pretty smoothly and we have a solid plan on how we're going to do the project.
5. It would help to be able to compare our data with other groups to help us make sure we're on the right track.

6. I can share data with other classmates if they need it. Our group can also share how we're approaching the project to help other groups get an idea on how they want to do it.

22. Zach

1. I am currently working on LANA I and II.
2. I don't know how long the project is going to take so I am not certain.
3. N/A
4. Just the overall format of the turn in - which we will discuss in the meeting with our group today.
5. Feedback about my group's progress is probably the most helpful thing.
6. Radha, Alex, Huston, and myself have been meeting to work on the project over the weekends. If you could magically change Alex's time zone so that we can spend more time working together, that would be excellent. Otherwise, I think we are doing well as a team. :)

28. Huston

Room 3: AlgeBROS

8. Jiaxin (Ivy)

24. Summer

35. Alex T.

1. I am more than halfway through Lesson 18.
2. I'll try to get as far as possible on the LANA project.
3. Start to form LANA project working groups. For each of your regular groups, identify and contact at least one other group that is around the same place as you in the LANA project. Make a plan to contact that group to get updates and work as a team to make progress over the coming days in this class.
4. I need help figuring out what the purpose of the project is and with measuring.
5. They could show me examples of their LANA Projects.
6. I could let them borrow my notes.

38. Linda

Room 4: We gonna get A's

1. Megan

I don't know how far I will get with the LANA project but I will try to accomplish as much as I can. I hope to finish my portfolio by this week. My main concern is balancing the timing of this class, with finals from other classes. I think that I will reach out to the TA if I ever get stuck on the LANA project and need guidance.

20. Cary

I'm not sure how far I will get on LANA because I haven't started it, I'm on lesson 16 on the lectures. I'm hoping to finish 16 today, do 17 today and tomorrow, and 18 tomorrow and Wednesday. That will set me up to have a solid week and a half to pour into the LANA project.

26. Owen

I don't really know how far I'll get in the LANA project, but I'll try to do as much as possible in the coming days. My main concern is not having enough time, so I think one help I need is to extend my time to Sunday. I guess the TA can be helpful if they are available on discord chat in the next 1.5 week. I can help classmates by just being available in discord chat.

41. Xuechi

Room 5: The Group

7. Ivana

11. Hao

14. Rachel

33. Jennifer

7. Update your progress on the lists under point 5 above.
8. Next to your name, identify how far you anticipate you'll get in the LANA project.
9. Start to form LANA project working groups. For each of your regular groups, identify and contact at least one other group that is around the same place as you in the LANA project. Make a plan to contact that group to get updates and work as a team to make progress over the coming days in this class.
10. As you prepare for your LANA Project submissions, please identify your concerns: what help do you anticipate needing in the coming 10 - 13 days? I am worried that I will not finish in time.
11. How can our classmates, the TA's, and Jeff help you make meaningful progress on your LANA project submissions over the next 1.5 weeks? For now, I am not too sure.
12. How might you help your classmates? What kind of support can you provide to other students in this class? I can help them understand how to build circuits!

Room 6: Wed Group

12. Taishi

27. Abdullah

36. Angel

40. Jade

Room 7: Hainanese Chicken Rice

9. Xuhan: I just finished my portfolio, and am preparing to work on the LANA project. I will ask for help from Anderson, as he is almost finished with the LANA project.

19. Weicheng (Anderson) I am planning to try finish the LANA project till steps 11 if its possible and document my process throughout the journey of doing LANA project

21. Qijun:

1. Trying to finish LANA project
4. I think my best groupmate-----Anderson will help me a lot!
- 5.i will try to finish it as soon as possible than i can help someone who dont understand to finish the Lana project.

31. Murphy

Room 8:

4. Adrian B.

Currently lesson 15

Goal is to finish lesson 16 by wednesday and then do worked problems from lesson 0-16

17. Daniil K

Room 9: Creative group

2. Kojiro

3. Erik

I'm not working on LANA, but I could always help others with measurements and their lab kits.

29. Muzaffar (Zaff)

24. Kelvin