

In-Class Agenda and Resource Document

Foothill College Math 2B.01: Applied Linear Algebra

Spring 2022, Class 5: Tuesday 4/19/2022

In-Class Meeting Time: 7:30 AM - 9:45 AM in room 4604

Reminders, Updates, and News

1. Do we want a discord channel in this class? In my other class, as student named Mo created a discord server for our class. The URL for that Discord can be found here. During class today, Mo gives an introduction to that resource and we start to build community in that space. Here is the URL for that discord: <https://discord.gg/tunvCvMWsq>

Note: I (Jeff) do not plan to be involved in that space unless one of you specifically ask me to do so. I LOVE the idea that you have a private space where you can think through your learning together, contact each other asynchronously, and work in teams to deepen your experience. I do ask that you be the best versions of yourself and engage in that space as professional learners. I ask you to be respectful and supportive of each other. I am working to help us create a learning family together, the type of family that is positive, uplifting, supportive, kind, patient, and powerful. I want to help us create a space that challenges you to be the best version of the self you want to be. Every bit of help you can provide towards that goal is much appreciated. Thank you Mo for your leadership.

2. Angelo's Viola Davis quote "Doing something greater than yourself is a hero's journey"
3. I updated some key links on our Math 2B Content Homepage. These include all of the following
 - [Anderson's Master List of Applied Linear Algebra Videos \(.pdf\)](#) or [\(.docx\)](#)
 - [Lesson 10 playlist](#) link
 - Draft sections of the textbook manuscript including
 - [Lesson 11A: The matrix-matrix multiplication problem \(.pdf\)](#)
 - [Lesson 11B: Properties of Elementary Transformations \(.pdf\)](#)
 - [Lesson 11C: Properties of Orthogonal Transformations \(.pdf\)](#)
 - [Lesson 11A playlist](#) link
 - [Lesson 11D playlist](#) link

4. I got the first draft of one calendar ready before class started today:

- [M2B.02: Survival-Mode Calendar \(.pdf\)](#) or ([.docx](#))

Survival-mode progress: expect to spend about 8 - 10 hours of work per week outside of class on videos/notes plus another 2 - 4 hours per week on conquering college materials.

- [M2B.02: Beginner Calendar \(.pdf\)](#) or ([.docx](#))

Beginner-level progress: expect to spend about 12 - 15 hours of work per week outside of class on videos/notes plus another 2 - 4 hours per week on conquering college materials.

- [M2B.02: Intermediate Calendar, LANA Project \(.pdf\)](#) or ([.docx](#))
- [M2B.02: Intermediate Calendar, Eigenvalue Project \(.pdf\)](#) or ([.docx](#))

Intermediate-level progress: expect to spend about 15 - 25 hours of work per week outside of class on videos/notes plus another 2 - 4 hours per week on conquering college materials.

Over the years, I've had many, many students say the following:

- I want to learn how to apply math to the real world
- I want to be paid for my technical expertise
- I want to do creative knowledge work and put math into action
- I want to become an engineer and use math to design cool things
- I want to model the world around me to improve my local communities
- I want to find more purpose in math class beyond getting good grades and studying abstract theory

The applied projects that I offer in the intermediate-level track help you begin to create your own compelling answers for these questions (at least within the context of a 12-week quarter). For the intermediate-level engagement levels, you can choose one of two applied projects that are Jeff prepared for you. This includes either:

- Linear Algebraic Nodal Analysis (LANA) Project: This project is great for electrical engineers, physicists who are interested in electricity, or applied math majors who want to see how linear algebra can help solve real-world problems.
- Make Eigenvalues Resonate Project: This project is great for mechanical engineers, civil engineers, aerospace engineers, physicists who are interested in Newtonian dynamics or vibrations analysis, or applied math majors who want to see how linear algebra can help solve real-world problems.

- [M2B.02: Advanced Calendart \(.pdf\)](#) or [\(.docx\)](#)

Advanced-level progress: expect to spend about 25+ hours of work per week outside of class on videos/notes plus another 2 - 4 hours per week on conquering college materials.

The advanced-level calendar offers you a track where you push beyond the intermediate-level. In the advanced-level work, you might do BOTH application projects created by Jeff or you choose-your-own adventure and design your own application project. You might also begin to read and of the Chapters 2, 3, 4, 5, 7, 8

5. For those of you that get excited about the applications but don't have the bandwidth to engage fully this quarter, there are opportunities for us to engage next year (assuming you'll be around Foothill). Alternatively, you can design your own studies at whatever institution you transfer to via the independent study process.
6. Linear Progress of Deep Learning
 - a. Novice Role
 - i. Good questions are a blessing to the expert: ask as detailed questions as possible
 - ii. Get in the habit of recapitulating the "answer" (response) in your words
 - iii. Don't let expert be lazy
 - b. Expert Role
 - i. Coach and Encourage
 1. "Good Try"
 2. "Beautiful Mistakes"
 - ii. Listen to words and to message/question under words
 - iii. Ask clarifying questions
 1. "Tell me more about that"
 2. "Spin that out a bit"
 3. "What do you mean"
 4. "Try again"
 - iv. Ask novice to teach you back in their words
7. Fish Bowl Demonstration
 - a. Inquiry
 - b. Direct Instruction
 - c. Confirm Understanding (expert asks novice what the answer to their question is)

Past Due Dates

CLASS 4 DUE DATES (Due on Thursday 4/14/2022 by 7:30am)

1.

CLASS 3 DUE DATES (Due on Tuesday 4/12/2022 by 7:30am)

1. [Conquering College Lab 1](#) is due today
2. Class 3 Journal Entry on [Jeff's Flipped Learning FAQs](#)
3. Watch YouTube video [Math 2B Interview with Maria Mihaela](#) (24 min, 37 sec)

CLASS 2 DUE DATES (Due on Thursday 4/7/2022 by 11:59pm)

1. Fill out the Spring 2022, Math 2B : Welcome Survey
2. Complete our growth Mindset activity
 - Read Jeff's blog post [We Believe In You](#)
 - Read the [Growth Mindset Article](#)
 - Complete the Growth Mindset Survey
3. Class 2 Journal Entry

Today's to-do list

Generate as many questions as you can. Find answers to your questions. Help answer questions from our others in our learning family. For any questions you can't get answered today, capture those in your second brain. In other words, write your questions down in a special place so you can track your progress on those questions as the quarter goes on.

1. Updates and news
2. Journal Entry for Class 5
3. Build relationships with other scholars in this class: speed-dating discussions about today's journal entry
4. Launch Conquering College Lab 2

Upcoming Due Dates

- Conquering College Lab 2 (Due Tuesday 4/19/2022 by 7:30am)

Decisions that need to be made

1. What is your portfolio going to look like?
2. Who is your learning partner going to be?
3. How should we, as a class, deal with class questions? I'd like to co-create a system for tracking your questions and our answers to those questions. How should we do this?

Note 1: this is not as easy as it may seem. I'm down to get suggestions and try new things. But I expect us to iterate and improve our approach throughout the quarter as we get a better sense of the complexities of this process.

Note 2: Last week, two people utilized the "Question for group thinking" space in our Class 2 Google Doc. One person did so anonymously and the other shared their name. I do think this can be a really powerful way to share ideas and to engage in asynchronous discussion.

Questions for group thinking

As our day proceeds, please feel free to list any questions you have in this space.

- If you feel comfortable, please add your name to the question to identify its source.
- Anonymous questions are also welcome.

I can't promise I'll be able to answer your question(s) during the presentation. But I will try to help our class find answers to every question before the start of our next in-class meeting.

If you're interested, you can check back on this Google Document anytime you'd like for my responses to your questions.

Below is an example of a question and format (please highlight in orange)

Example Question: What does an example question look like? -Jeff Anderson (2/10/2022 @ 7:31pm)

Question 1: What math problems should we practice? You recommend taking them from the back of the textbook, but I'm having trouble connecting the class lessons to the chapters in the recommended textbook. I've been doing the "Warm Up Quizzes" I'm unsure if that is sufficient practice. (4/13/2022 @ 9:45am)

Matthew Legates's Response to Question 1: He provided some good suggestions when answering Question 2 on the Class 3 doc <https://docs.google.com/document/d/1Hj81OxjBy5Z8l42scnPNIS1cu8gs7vc3yqe8qT6OSoE/edit>

Question 2: Hi Jeff, so far I've been getting through the course content strictly using your [textbook draft notes](#) and your [Warm Up Quizzes](#). However, I noticed in class that you and other students often talk about watching the lecture videos and taking notes from that. Because I prefer reading much more than watching videos, I am curious whether only reading your notes would be sufficient to understand the material deeply? Are there concepts in the lecture videos that aren't talked about in your notes? Conversely, do your notes cover ideas more in detail than the lecture? Are we expected to use both? Thanks. – Julia (4/19/2022 @ 3:19PM)

Journal Entry for Class 5

Kindling: quotes to help light some flames (hopefully)

Let's create a process where we track our progress, share our work, talk about stumbling blocks, and help each other stay accountable to our learning.

-

Template Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

Example Response

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

[Example response](#)

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response.

Example Response

Student Responses:

Geetarth's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I honestly don't think I will be able to finish these lessons in time but I really appreciate that you have given me a way to study at a pace that I can give my full attention to. I have not finished my lesson 0 but I have started watching the videos, I will now be able to work on each lesson in depth.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

The thing that I am struggling with in this class is that I am have a hard time to be accountable to my own deadlines. When I have tried to engage in the content outside of class I get distracted very quickly. However, I am enjoying reading the posts and working on the documents that are associated with the reading.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

I believe that we as people could learn from one another, but because we as students have been pushed to follow the work work and no play method it has made our way of socializing difficult to many students. Due to this some students have poor socializing skills that are just as important

Saul's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

Currently, I am a little behind. I am still completing Lesson 0 and am a little behind on journal entries, course labs, and everything else. There are four courses that I am taking simultaneously that all have deadlines. I try to set priorities and squeeze everything in. I expect to catch up fairly quickly after the breaking-in zone.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

However, although I think the letter grade system is broken, I believe the canvas system has been developed for a long time and many features are quite useful for my own task management and time management. It is more effective to view objects in a linear manner for time management purposes.

There are usually certain minimum requirements for every course, and the canvas system provides an intuitive way to display these requirements.

It is my understanding that I have not yet become familiar with the entire course website, however I do not believe this is a major problem, and I believe that with frequent access to the course website, I will be able to become more familiar with the structure of the course.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

In terms of my study journey, I consider myself a sprinter rather than a marathoner. In the past, I have tried to set up a schedule for myself and have been diligent in adhering to it. My body and my mood, however, have always preferred some freestyle. The feeling of rushing through course content and making intense, aggressive progress is pleasing to me. I was moved to action by reading the article about the principle of slow and steady struggle. As a means of ensuring that everything sinks in and I am able to properly digest what I have learned, I need to spend some time in a distracted state. In order to make everything work out, I will combine some of my sprinting methodologies with the strict schedules in some way.

Julia's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I am doing alright in this flipped classroom environment so far. I really enjoy reading Jeff's textbook notes, I think they are really well organized and easy to take notes from as opposed to viewing the lectures. I have finished notes for Lessons 0,1, and 2, but I'd like to complete more practice problems to make sure that I understand the material. The thing about flipped learning is that when you are in an individual space, it's hard to gauge your understanding of the material because you don't have other people around to compare it to. I feel like I have a good understanding, but I could be completely behind. So far, I am ok with my progress, but I'd like to accelerate my pace a bit.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

The main thing I am struggling with in this class is keeping myself on schedule. When there is no penalty (grade wise) for late work, I find it really easy to fall behind and let the lessons snowball and become unmanageable. Currently, I am approximately on track with the Beginner's Level Calendar, however I'd like to improve and become an Intermediate or Advanced level learner. Since I am working in an individual space, I'm having a hard time trying to figure out a balance between relaxing and studying. I don't want to overwork myself, but at the same time I am worried that I am wasting too much time and not learning as much as I should.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

I think we should spend more time discussing the material in class to help improve my systems for this class. I think it will become easier for me and others to tell how much we understand the material. I appreciate that Jeff has so many resources in place that makes group thinking accessible, however I think that physical, in-person discussions would be the most beneficial.

Isabelle's Reponse

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I think I am starting to get used to the flipped environment, but I don't think I am in the stage of advanced learner. Right now I just finished lesson 0 and half of lesson 1, What I did was to first watch all the video without taking the note and the lesson 0 was somehow taking long for me to understand.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

The scheduling is the most factor that I am struggling with this class. The only thing that is left for me to figure out is how to control my work schedule I was thinking either working less days or less hours. The another thing that I am struggling with is note taking. When I watch YouTube videos, I have to stop every 15 seconds to understand and take a note and this also takes a long time for me, which I am not sure if this is correct way to do it.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

What we are doing right now actually does help me engaged and the weekly updated e-mails also allows me to remind myself what I have to do next week. Another adaptation that we could implement is to engage ourselves to the learning community inside the classroom. The interaction between the classmates could improve my system as a learner.

Daniel's Response

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

-I am a bit behind in the lessons but I feel comfortable right now. I am adapting to this new environment and even though I am behind, I remind myself that you(Jeff) are not going to punish us for going at our own pace. I do feel I will end up catching up in the course soon once I get into sync with my work & school schedule. I have thoroughly studied lesson 0 and just have a few questions on this topic. I am going to start lesson 1 today.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

-Right now I'm struggling with having enough time to really dive deep into any classwork. I work 32 hours a week so the days I'm not at school I'm working until 4pm and since I'm taking 4 high level courses right now I have been trying to study 2 hours for each class a day so that is another 8 hour job shift on its own. Tuesday and

Thursday I can't really study unless I stay up late due to the fact my last class ends around 10-10:30pm. It is very hard right now to be focused on 8+ hours of studying after a 8 hour shift and being that my classes start 7:30 am on tues and thurs I need to make sure I get at least some sleep. My time management right now and lack of focus is my biggest concern right now.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

I believe I need to free up my weekends now to be able to improve my progress in this class. I try to study in the week but when I'm in a race with time during the week it is really hard for me to get anything done let alone feel like I made any progress. I feel I need to make a second calendar to make a schedule of when I should study, what progress I need to make, what needs to be done by what day, etc. I feel if I had weekly check ins just to see if I'm actually learning the knowledge and heading in the right direction would be a huge help. I do my best learning with constructive criticism.

Peter's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I am nearly finished with Lesson 2 on the YouTube playlists. Once I finish with Lesson 2 later today, I plan to start on Lesson 3 today. I also finished the first two labs that were assigned. However, I would have to revisit my notes and revise them to ensure I have the best understanding of the concepts. Even though I have taken a class with Jeff already, I am still adjusting to the flipped classroom environment.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

I am struggling with time management and keeping my focus and commitment in my daily schedule. The additional setbacks that add to these struggles are having to study for other classes as well as other commitments that come up to me at the last minute. One of the main challenges in the flipped learning environment I experience is figuring out what are the best ways to reinforce my learning.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

The adaptations I would have to make to improve my systems would be to watch the clock from time to time to make sure I am not spending too much time on one subject where it gets to the point that I don't have time to

study for another class. I would also have to find some additional practice in the textbooks I am using as supplements to further reinforce my learning.

Matt's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

At the moment I'm not making a ton of progress in the class, but I feel like I'm still adjusting to this learning model. I think once I can get into a good routine and work schedule I'll be able to take advantage of this class more. Right now I'm still finishing Lesson 0-1 so I'm a little behind the Beginner Schedule. Despite this, I should be able to catch up this week and be able to follow the calendar.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

It's a little strange to try to shift motivation from a fear of punishment to an internal desire to learn the material. I definitely think it's easier for me to be motivated when I'm afraid of the consequences than if it's of my own accord. On the other hand, learning when you're scared of punishment rarely results in deep learning, and when scared of punishment I always prioritize the class over my health.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

I think I need to be better about scheduling in the future for this class. Since there aren't any immediate consequences of not completing the coursework, I don't put it at a high priority compared to classes that punish heavily. Without that kind of motivation, to stay on track I should put deadlines on myself according to the beginner schedule. I feel like being on track in the course material is one of the most important things to contribute to the learning environment, because if you're behind you won't be able to collaborate and have a symbiotic relationship to learning with peers.

Lily Knab's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I think I'm doing ok in the flipped classroom environment. I have finished lesson 2, and I am planning to start spending more time on the lessons.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

I would say that I am beginning to find intrinsic motivation to do the work for this class. I am not finding it challenging to be motivated to complete the lessons because I know I have to in order to pass the class. I am still working on figuring out what my intrinsic motivation is to deeply learn and understand linear algebra.

Because I am aware of how my motivation typically comes from getting a good grade to keep my GPA high (and I have experienced that this motivation does not inspire deep learning), I am eager to focus on how I can find intrinsic motivation. I would much rather continue my college experience with the intentions of learning deeply so that the knowledge that I gain through courses will be useful to me in the future when I am trying to solve real-world problems in my career.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

I think it will be useful for me to explore outside of class how linear algebra relates to what I am passionate about. Figuring out why learning linear algebra is important to me now will keep me focused and motivated while completing the lessons. It will also give me motivation to think about projects I can work on to solve real-world problems.

Christine's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I think I'm doing fairly alright with this flipped classroom environment. I'm slowly getting used to it and gently building the asynchronous work into my daily schedule to make it work for me. I'm halfway through lesson 2's playlist, but I do feel like I need to go back to previous lessons for retention.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

I'm struggling with organizing my work in a cohesive manner as well as keeping the quality of my work consistent. I probably need just a bit more time to set up a system that is specific to my linear algebra work so that I can fully dedicate myself to the content rather than superficial detail.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

I think I need to be better at breaking up the material throughout the week. I've been really relying on weekends to catch up on videos, but I've noticed that I've been doing that for my other classes. Planning to do "deep work" for this class along with others is starting to get physically impossible, so I'd like to explore other ways of learning the material for the rest of the quarter.

Flavio's Response

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I am struggling with the flipped classroom environment. I am done with Lesson 0 and starting Lesson 1.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

I am struggling with creating a schedule for when to study linear algebra and do work for this class. I am very bad at self-pacing.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

In other classes I was able to be more productive because the system of enforced due dates essentially creates a schedule for when to work and study for you.

Olivia's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I am still adjusting to this flipped classroom environment. I have had a few flipped classroom experiences in the past but they had hard deadlines and if I didn't do the optional assignments or extra work I knew I wouldn't be able to pass the class. Right now I am almost done with lesson 3 but I still need to do more practice problems so that I can get a hang of the material.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

To learn the material I watch the lesson playlists but I have to pause a lot. It takes me about 2.5 hours to watch each of the playlists and take thorough notes but even then it is still pretty difficult for me to get used to all the new vocabulary. I think I just need more practice using the math language. In the past I didn't use math or technical language that often and was used to being tested on my knowledge by doing problems so this format is something that I would like to learn how to adjust to.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response?

I think I need to make a more detailed schedule for myself so that I don't procrastinate on learning the material and gain a stronger understanding of it. I am used to having 2 intense STEM classes each quarter that have hard deadlines so I was used to constantly working and rarely took breaks. This quarter is a bit different because I have less of a set schedule based on my other responsibilities. Because of this change I need to figure out how to take a break from studying without taking too long of one so that I can both learn and be healthy. I plan on making an hourly schedule with planned breaks so that I can focus.

I am excited for learning partners and groups because I would like mine to keep me accountable for learning the material on the intermediate level and learning it well.

Niko's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

The flipped classroom environment is working well so far. It's a good thing that I've gotten used to the environment in my Physics class, so I was able to adapt pretty accordingly. As for my lessons, I think I'm at the beginner level right now, just finishing up lesson 2. I will definitely need to work on a few practice problems as I go forward so I can see if I actually understand the material, so progress is decent so far.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

I'd say that my main problem is my focus level. When I start to get focused on something, and I mean when I really get into the zone, then I can spend a lot of time on that subject and stay hooked. The issue is getting to that point. It's that feeling I get regularly where I'd think "ugh, I gotta wake up and get to school" or "damn, I gotta go to work," but then once I'm actually there, I'm good. I find myself veering off of this class's work to jump around different work or, more commonly, just not do anything and spend too much time fooling around, then I feel terrible when I feel the need to shove everything I need to do during the late night.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response.

I should probably build a better learning environment for myself. Find some ways to reduce my distractions during critical times of learning so I can stay focused. It's hard to do that given that I'm constantly in front of a computer that provides a lot of the entertainment I have for myself, but I just need to focus on that discipline and that edge that I feel that I've lightened on over time. As for the community, I'm not really sure. It's not like

I got someone sitting next to me constantly keeping me in check. I guess if I need to, I can work with other people outside of class (as long as I can really coordinate my time to do so).

Nicole Parziale

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons?
How much progress have you made?

I am on lesson 2 but I am still a little unclear about the learning portfolio and will need to go back and do work to integrate my notes and knowledge into the learning portfolio format. I am doing well with the flipped classroom environment in this class but it is a struggle in my physics class.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

I do not feel that I am struggling much in this class. The only issue I've had is putting too much time into the college labs and running out of time to finish them before the "deadline."

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response.

It would be nice to have a way to communicate with each other outside of class. Being able to get quick help when stuck on something outside of class helps keep motivation up and prevents feeling like you are losing time and falling behind.

Justin's Response

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I think I am doing much better this quarter because I experienced it last quarter. For the 1st 6 weeks of last quarter, I was still adjusting to this environment. I was often putting work from ENGR 11 aside until I started

gaining the intrinsic motivation to complete the lessons. Now, I am finishing up lesson 2 and have finished the 1st 2 labs.

Question 2: Challenges

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

I do not think I am struggling a lot with this class. I had a whole quarter of this last quarter and I have already adjusted to it. Sometimes I would end up putting work aside but I would always get to it as soon as I can.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response.

I think it is hard for students to adjust to this system after years of being conditioned to work in a lecture-based classroom. It was difficult for me at 1st but it took some time to adjust. I believe it would be helpful if students were introduced to this environment slowly, and it will just take time for everyone to adjust because of the previous years of conditioning.

Hailey's Responses

Question 1: Progress Check

How are you doing in this flipped classroom environment? Where are you in your lessons? How much progress have you made?

I am still not used to flipped classroom environments yet because I'm afraid I will not be able to match up with my classmates' progress like in a regular classroom environment. However, I feel the positive energy and am more engaged in this classroom model more than other classes. I am able to finish lesson 2 at this time.

Question 2: Challenges:

What are you struggling with in this class? What has come up as you've tried to consistently engage in the content outside of class?

I think what I am struggling the most is to focus on studying outside of the classroom. I get easily distracted by other things which I am trying to get rid off.

Question 3: Practice

What adaptations do we need to make (both you and our larger community) to help you improve your systems for this class? Be as specific as possible in your response.

As much as I enjoy flipped classroom environments, I am still afraid that I am behind in class because we don't have a traditional deadline. I think putting some timeline for lessons that we need to finish will be able to solve the problem. Also, as a STEM student who is not good with writing, I was struggling with the amount of

reading and writing I did in these weeks. However, I know that the information is helpful for us as this is a brand new experience.