

Thank you so much for giving me feedback! I read every comment of yours and I've summarized them below.

A "+" sign means that a student says "this method is working for me. please continue!".

A "-" sign means that a student says "this method is not working for me. please stop!"

With a large class, it is impossible to choose a teaching method to make every student happy. Thus, I've identified trends in the feedback and will adjust my teaching accordingly.

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Post solutions on webpage

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- something to reference at home.
- useful! please continue!

Clicker questions with discussion

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- Clicker questions first without discussion then with discussion because it makes us think of our own answer before we discuss.
- helpful to learn about new concepts
- help grasp concepts
- Clicker questions with optional discussion with others.

Write solutions on doc cam:

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- Doing easy and complex problems in class while going over every detail
- Solving problems on doc cam helps because we can see a live solution/process. you have beautiful handwriting.
- good pace. able to write down notes at the same pace as you!
- tells us the process of solving questions rather than just the answer.
- I like the step by step procedure on doc cam.
- Slides are hard to follow. Prefer you to use document camera so we can see how to work our solution.

Discussion questions in slides

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- helpful for learning about new concepts
- help grasp concepts

Solve short problems on your own

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- engages our brain
- Having short problems and then walking around to ensure people are working and helping people.

Solve longer problems in groups

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- Get different inputs when working on problems
- Group work in particular was awesome. We still learned stuff while being engaged.
- Although I enjoy group problems for this course, I don't like when we do it during the entire lecture time when I could have done it during free time.

- Didn't work for me because I really didn't understand the topic. I was unable to make my own inferences and form a reasonable guess before solving the problem.

\*\*\*Alice's response: Thank you for sharing your opinions. Group work is not a major component of this course. However, let me re-iterate the reason for structuring the natural deduction class as problem solving in small groups.

\*\*\*First, I believe that the best way to learn to write a natural deduction proof and to learn problem solving in general is to work on problems. Also, you only realize the tricky parts of a problem by trying to solve it yourself. This is why I let you solve short and long problems during lecture time.

\*\*\*Second, teamwork is an important skill. In years, you will realize that the only way to accomplish anything significant and substantial is to collaborate with many other people instead of working by yourself.

\*\*\*Therefore, I structured the class as a group problem solving session. Of course, this is only one of many effective ways of structuring this class.

Clicker questions with no discussion

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- helpful for self-assessment
- Clicker questions with no discussion, might as well go straight to discussing with people around us

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Remember name

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- That in particular makes me feel more engaged.
- I like being remembered.

Music before class

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- quite relaxed
- It is not my particularly favorite genre of music.
- Play: Drinkin' Problem - Midland
- Starting taking music requests

\*\*\*Alice's response: Thank you for your suggestions about the music! Country happens to be my favorite genre of music and that's why you've been hearing it often. I am happy to take requests for music to play. However, please don't take offense if I don't end up playing the songs you suggested.

Applications of logic

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- Help enhance course material.
- Helps warm up.
- CS245 is a bit dry course as I don't understand often its connections to real world. You should give even more examples.

## Microphone

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- Can hear you easily.

## Logic puzzles before class

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- Helps warm up
- Stop: for 8:30 section, hard to arrive in advance.

\*\*\*Alice's response: The puzzles are for fun only. Please don't worry if you couldn't arrive in advance to solve it. They are included in the slides so you could always look at them later.

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## Pace:

- Sometimes concepts and definitions are gone through too fast.
- Rushing through content. Sometimes I won't understand how to do examples because content was rushed.
- I feel that the lectures go slower at the start, and sometimes we don't have enough time to finish material at the end of the class.
- Most of my friends and I think the lecture pace is a bit slow.
- The slides move along a bit fast, perhaps let us know some of the important slides to review. I like using slides overall, but they go pretty fast, especially for key definitions. In those cases, inform us to write down the slide number so we can at least write it down later.
- Going through slides so quick, sometimes I don't get everything written down just a few more moments would be good.

\*\*\*Alice's response: Thank you for your feedback! I realized that I went through some slides too fast. I will slow down when going through slides and give you sufficient time to take notes.

\*\*\*One suggestion about note taking: I post everything I show in class (if I miss something, send me an email and ask for it). Knowing that, you can afford to be selective about what you write down. Instead, please spend more of the lecture time thinking about the concepts and problems and asking questions.

## Good things with examples in class:

- Extra examples given.
- You prepare us well for the assignments. All questions on the assignment can be answered with the information you give us.
- I like the examples shown in class, it helps with doing assignments because we have practice.
- I like the step by step procedure on doc camera. Keep it up!
- More examples. Less slides than other courses
- Good explanations

## More examples:

- More time to work on examples and problems in class
- Do more examples and exercises in class.
- Even more examples and working through problems in class
- Post extra questions with solutions so we can get even more practice.

\*\*\*Alice's response: Thank you for your comments. In my experience, students always want more examples and practice problems. I will do my best to hunt down and post additional problems. Here are a few other good resources of practice problems:

- Other instructors' notes often have examples that I don't have time to cover in class. For example, check out the instructor specific pages for Collin Roberts and Fizz Kabir.
- The textbook has quite a number of exercises at the end of each chapter. There are often very good practice problems.
- The study exercises posted on the Assignment page include good practice problems.

Posting things:

- Add clicker question answers in slides (e.g. next slide is the same thing but with answers highlighted)
- Add reasoning to some solutions and post them on the website

\*\*\*Alice's response: I prefer not to post the answers to clicker questions in the slides. I believe the process of solving the problem and the reasoning behind the problem is much more important than the solution itself. Thus, I want to encourage you to work through the problems yourself rather than reading the solution. You are always welcome to send me a quick email to check the answers for clicker questions with me.

Thank you for the suggestion of posting reasoning in addition to the solution. Ideally, I will always do this, but it takes lots of time to write the reasoning down. I'll post these when I can.

Good things:

- Answering our questions, no matter how dumb.
- The handouts for the ND rules was very good. So was the "what don't you understand on this page?" 10/10
- Asking for feedback
- Love the roadmaps.

Where are we going for the course?

- Context of where we are going next in the course, difficulty level of concept, and how it fits in would be nice.

\*\*\*Alice's response: The roadmaps posted on my page of the website shows you an outline of the whole course, and our schedule follows it closely. I will refer to it from time to time.

Other suggestions:

- Food: we love snacks!
- Bring more chocolates.

\*\*\*Alice's response: There is a chance that I will bring more candies/chocolates after Halloween. ;)

Assignments:

- Please avoid changing the assignment after it's been released.
- Email reminders for assignment deadlines. Not really a serious request but I'm sad because I forgot to submit A3 when I finished it on Sunday.

\*\*\*Alice's response: I am very sorry about the change for A02. I will avoid doing so in the future.

I am sorry that you forgot to submit A3. Unfortunately, I won't be able to send email reminders for assignment deadlines. Instead, I suggest that you get into the habit of submitting assignment early. For instance, it is not a bad idea to submit a version as soon as you finish it.

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Nice comments:

- Nothing to stop or start! Classes are at a reasonable pace with an excellent teaching style. Thank you for doing your best in teaching CS245!
- Otherwise, I am really enjoying class! =)
- Think I've got the best out of the class. So far not much feedback to give.
- The enthusiasm in class is wonderful because you teach in a very interesting manner.
- Your voice and note is clear.
- Honestly, I think everything is good. I can follow the examples with no problem and am able to revisit them online at home. Explanation is clear, and I feel the clicker questions are a good chance to judge your own understanding. Also a nice touch that you know us by name.
- I'm really enjoying class!

\*\*\*Alice's response: Thank you so much for your encouragement! I will keep improving my teaching and do my best to help you get the best out of this course!