

## EVALUATION: TEMPLATE

### Name:

Class Year:  
Major:  
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So that we can improve our courses and our teaching, we solicit feedback from you, the student. Below, please provide your comments and suggestions so that we know more about your experience with this course. You need not limit your comments to your responses for the questions below; you may make further comments at the end of each part of the questionnaire.

These forms will be used to evaluate Professor Alvarado. This is why we ask you to enter your name; senior members of the Department, administrative staff, the Dean of the Faculty, the President, and the Committee of Six will see your name on the evaluation. However, your name will be removed from the copy given to Professor Alvarado.

**Thank you for your time and consideration in answering these questions. This feedback is very important to the professor as well as to the development of our courses, and your effort is greatly appreciated.**

### From Professor Alvarado:

*Please take the time to complete this evaluation! Your comments will be carefully considered by both myself and the college to assess my teaching. I appreciate constructive comments toward improving the course and my teaching in general. When answering the questions, please consider the different aspects of the course, for example, the text, lectures, homework, worksheets, exams and in-class activities. It is important that we hear from everyone in the course to get a complete view of whether every student's learning objectives are being met. Please use these evaluations as an opportunity to reflect on the course and let us know what worked well and what could be improved. Thank you!*

**PLEASE NOTE: Use the TAB key or your mouse to move between questions; the Enter / Return key will submit the webform.**

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### TEACHING: Please comment on Professor Alvarado as a teacher.

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.
2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.
4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?
5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?
6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

### **THE COURSE**

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?
8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?
9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

### **YOURSELF**

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

## EVALUATION: By Question

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### TEACHING: Please comment on Professor Alvarado as a teacher.

#### 1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

1. Yes. He was a very enthusiastic professor. He was clear in what he was teaching and kept me motivated about the material even if I struggled a little with keeping up with the content. Professor Alvarado was very willing to help us to succeed by being super accessible and open to hear our thoughts about the course.

2. Yes: he was always energetic and engaged, and it seemed to be a genuine reflection of his passion for the content and for teaching.

3. Professor Alvarado is one of the most energetic professors I have ever had. He actively engaged students with the material by asking us questions and checking our understanding. If we had any issues, he would always encourage us to come to his office hours. In fact, at the beginning of every class, he would encourage us to come to one of his many office hours.

4. Yes. I loved the positive energy that Professor Alvarado brought to class every day. He made learning the material very straightforward and fun to learn.

5. Professor Alvarado is straight to the point in his lectures, as we always focus on the next topic on hand through constant lecture notes. I would say at times, at the beginning of lectures, there would be inspiring moments where he emphasizes the importance of being here at this college and working hard at it.

6. Yes, he was very encouraging and the classroom atmosphere was very lively. His office hours were welcoming as well.

7. Yes. Great voice modulation. Superb usage of technology in the classroom (it's math and you still managed to do this). The material was laid out and covered as planned, and he kept pushing everyone in the class to succeed.

8. Yes, Professor Alvarado was a fantastic and engaging lecturer. He always encouraged questions and explained concepts very clearly and thoroughly.

9. Yes. Professor Alvarado encouraged participation and handled complicated material in a consistent and thorough way. Sometimes the content was discussed in such an abstract way that achieving rigor in proofs seemed like a daunting task but Prof. Alvarado held office hours that were designed to address such situations.

10. Professor Alvarado was always extremely enthusiastic about the course content and brought an energy to the class that not only engaged students but also allowed to

11. Yes, Professor Alvarado did an excellent job keeping me engaged in the course content because he had a very upbeat and positive attitude. The energy he brought to class made the material seem more interesting and made me more interested in trying to understand it.

12. Yes. He always kept a high energy in the class and kept us involved by asking us questions throughout the lecture.

13. Yes, Professor Alvarado was very enthusiastic every lecture which made the material easier to absorb and understand.

*14. Professor Alvarado was very friendly in class. However, I sometimes feel like he would prefer students who are a bit weaker to answer questions (which I think is great) so I couldn't participate as much as I would want to.*

*15. Yes, I always felt very engaged in class in whatever Prof. Alvarado was teaching and felt motivated to understand everything both in class and when studying/doing problem sets.*

*16. Yes! Professor Alvarado always came to class in an energetic mood and was always excited about the material he taught.*

*17. Yes, Professor Alvarado created an engaging and motivating class environment. He was always energetic when he lectured, and he encouraged class participation. I appreciated that he always stressed that we would get only as much out of the course as we put in, and that he emphasized improving (rather than perfectly knowing the material or proof techniques the first time through).*

*18. Professor Alvarado clearly went above and beyond in terms of the time and care he devoted to every aspect of our class. As much as I love proofs, it was him who truly inspired me to work hard.*

*19. Yes! All of his lectures were very interesting and kept us engaged with the course material.*

**2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.**

*1. Yes. His online class notes are super helpful for going back and creating definition and theorem sheets as well as for studying for the exams. My nitpicky comment would be very rarely the handwriting could be more clear, but overall the material is presented in a nice way.*

*2. Yes, I think so. Even if he hadn't been clear, his lecture notes were all published on the Moodle site so we could use them any time.*

*3. Professor Alvarado kept all of our class notes in an online notebook, thus they were accessible for us 24/7. His notes were always written clearly and chronologically and were necessary for studying for exams.*

*4. He presented the material in a very organized way. I loved having the option of just taking in the information because I knew that the notes would be posted online.*

*5. The content was organized from math topic to math topic. All notes are available online in an online notebook. All the homework was organized on Gradescope, making it easy to access.*

*6. Yes, his online notes, pre exam preparation sheets and other handouts provided made the course easier and clearer.*

*7. Yes. His understanding of what he teaches is only matched by his enthusiasm for the topics. He is good at teaching. He is methodical yet engaging. He understands how to make someone understand.*

*8. Yes, the online course notebook was a great way to keep the material organized by sections/exams, but it would have been nice if loading a given page on the notebook was easier. The progression of material and amount of time spent on each topic seemed very organized and well thought out, though.*

*9. Yes. Building up to the proof writing process was very important for the later on portions. In the future though, I think revisiting the proof structure in a way that revisits the initial material would help solidify the process of building up on content.*

*10. When learning the material for the first time, it appears to be very confusing and overwhelming. However, Professor Alvarado presents the material in an extremely well organized and clear manner, as I am able to look back on my notes and understand exactly what his train of thought was when introducing the material to us in the first place.*

*11. For the most part the material was presented in a well organized and clear manner. The only thing i would add, in addition to the material would be a set of practice problems before each exam with detailed solutions.*

*12. Yes. The notes were always well organized and color coordinated and available online.*

*13. Professor Alvarado was very clear with his material, and would stop and take the time to answer many questions if certain ideas were unclear.*

*14. The materials were logical and clear. It would be better if he has a definite plan in the beginning so that students know where the beginning and end goal will be, which I believe he will have next time as this is only his first semester here.*

*15. Yes, I felt that the class's structure and Prof. Alvarado's teaching style and use of the projected/online notes were all very helpful to my success in the class.*

*16. Yes, but I didnt always get everything the first time around. However, I still think that he explained it in an organized and clear manner.*

*17. Yes. The topics covered in the class seemed to build on each other. For example with indexed sets, we were introduced to them earlier on in the course, but they came back when we were covering the real numbers to connect with that material. Seeing index sets again was helpful for learning that material, and it was also useful for learning the new material to see it applied to something we had seen before.*

*18. He was obviously and thoroughly prepared for every class — and not just because of his stacks of notes! He fluidly presented theoretical material alongside concrete examples, and his atomic understanding of the material was evident. Clear that he was once in show biz!*

*19. Yes, the material was presented well. There was also an online link to all of our class notes, so that also helped us stay organized*

**3. Did Professor Alvarado encourage students to make comments/ask questions during lecture?  
Please comment on your response.**

*1. Yes. He always encouraged us to ask questions, answer questions that he posed, and to make comments about the coursework being presented.*

*2. Yes, he did. More than that, he would ask questions during lecture.*

*3. Professor Alvarado always asked students questions in order to check their understanding. He never tried to simply lecture; he always kept us engaged and active in the class.*

*4. Yes! He would constantly encourage us to participate and make comments regardless of whether we knew the answer or not. He actively encouraged any participation.*

*5. Professor Alvarado is constantly asking for our input. For example, he asks us to guide him in constructing a proof that we **SHOULD** know (emphasizes on should). If we have any questions, we can ask him after the lecture or go to his office hours. He always emphasizes that he is available to help.*

6. Yes, everyone felt encouraged to participate and ask their questions.
7. Yes. I was actually one of the students that participated the most and I can say that he definitely encouraged other people to participate as well. Towards the end of the semester other people started being more confident as well. He was inclusive and it worked.
8. Yes, he often encouraged questions and checked in with students throughout the lectures to ensure that they understood the material.
9. Yes. He would encourage participation and often call on people to help with proof-writing in class. This kept the learning process engaging and welcoming.
10. Yes, he always checks in between topics to make sure no one has any questions. He also regularly reminds us of his office hours to make sure we are able to reach him if we are not comfortable enough to reach out in front of the class.
11. Yes he did encourage students to ask questions and help push the material forward themselves.
12. Yes. He would pause after covering difficult material as well as basic definitions allowing us to ask questions.
13. Professor Alvarado encouraged everyone to contribute to his lecture and ask questions/complete the sentence for what he was looking for. He kept everyone engaged in that manner as well.
14. Most definitely! I believe that is the greatest thing about Professor Alvarado's style of teaching. He always probes students to answer questions and be engaged during class.
15. Yes, I don't think anyone in my class or I ever felt discouraged to ask a question or for clarification, and we got helpful answers when we did.
16. Professor Alvarado always encouraged students to engage in the lectures.
17. Yes. He always encouraged students to comment and ask questions during class. He would also sometimes cold call people he thought might have an answer (although this didn't always turn out to be the case).
18. He engaged us throughout class with questions, and welcomed them in turn. I was especially impressed by the way he nurtured individual relationships with each student, so that no one felt uncomfortable being asked or answering questions in class.
19. Yes, we would often ask questions about concepts we didn't understand, and he would explain the concept in a different way.

**4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?**

1. Incredible. He was helpful both in-person and electronically. In office hours, he was one of the most helpful professors that I ever had. And if you sent him an email about something, he would always respond as soon as he could. Sometimes, professor Alvarado would even reach out to individual students through email and expand on something that they talked about together in office hours.
2. I never emailed Professor Alvarado and felt like I had to wait to get a response. He had plenty of office hours as well.

3. *Professor Alvarado had many office hours and was a very accommodating person regarding time and meetings. I did find the office hours helpful because he made sure I understood the concepts behind my questions.*
4. *He was very accessible outside of lectures. His office hours, unfortunately, conflicted with my other commitments, so I was not able to attend them as much as I would have liked.*
5. *He was accessible in his office hours, opening up extra office hours if he thinks it would benefit us. The only problem lies in me, in that I didn't take advantage of his office hours.*
6. *Yes, I attended his office hours regularly. He was also very prompt with his email responses.*
7. *I wasn't a big "outside-class help" kind of person but I never doubted that if I had to meet him he would be available. Even now in reading period I feel I could have help from him and others feel like this too.*
8. *Yes, he would always respond to emails quickly, encouraged students to attend his office hours, and would frequently extend his office to provide extra support for students that needed it.*
9. *Office hours were very helpful the times I attended.*
10. *Yes, he responded to emails quickly and would always make time for the student.*
11. *Yes he had office hours outside of class and they were very helpful.*
12. *Yes. He was extremely prompt in responding to emails and held many office hours, especially before midterms. These were extremely helpful for reviewing for the exams.*
13. *Professor Alvarado held useful office hours and was very careful to help each student that had a question understand it until he/she understood it. Also, there were many other office hours outside of Professor Alvarado's hours that were accessible.*
14. *He is very accessible during office hours! However, a suggestion for the future would be to separate 111 OH from 271 OH then we could have his undivided attention rather than having to share it with another section.*
15. *Yes, I always received very useful information during office hours for help with problem sets, studying for midterms, or talking about the department/life stuff.*
16. *He did have office hours. However, I utilized Allison more than him. She was an AMAZING resource for this class and really helped me understand the material when I didn't get it the first time around. Also, being in her office hours was a much more comfortable environment for me.*
17. *Professor Alvarado was accessible outside of lectures. Office hours were helpful. When I needed to go to office hours but I couldn't because of a conflict with another class or activity, I was able to schedule another time to meet with professor Alvarado.*
18. *Great about email, outstanding in terms of demonstrated interest in discussing material outside of class. I wish he had more office hours I could attend, but there were many other great and accessible resources.*
19. *Yes, he was accessible outside of lectures.*

**5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?**

- 1. His interpersonal approach. He cared for each and every one of his students' success. I liked that he gave worksheets in class which helped us put the class material to practice while he was available for us to ask questions. His office hours were also extremely helpful and he was willing to extend his hours or schedule hours outside of his regular ones if need be.*
- 2. I'm bad at picking one element of anything, but his teaching worked well altogether.*
- 3. He is a very energetic person. He is not boring, passive, or confusing. He was clear and very excited to teach.*
- 4. I really enjoyed the energy and positivity with which he taught. He seemed genuinely happy to be there every day and this would make me happy to come to class.*
- 5. I love his enthusiasm in class and out of class. You can really tell that he loves this subject and loves teaching it to others. It made the classes go by quickly and made it easy to focus on the lectures. Having a voice such as his makes his class far more interesting.*
- 6. I think the overall way he presented the material as well as his teaching style were very effective for my learning this course*
- 7. I enjoyed his method. His choice of topics perfectly transitioned into the next. Questions and problems that we solved earlier proved to beautifully stack into more complex topics and thus, we learned.*
- 8. Professor Alvarado's passion for the topics that he covered really engaged me in the subject and inspired me to get a deeper understanding of the concepts that we were covering. The fact that he chose topics that had very interesting applications in current research and that he cared a lot about clearly came across in his teaching.*
- 9. The use of electronics was a strong aid to the course and his way of deconstructing a proof into smaller claims and then proceeding to address them was very useful.*
- 10. I enjoyed his enthusiasm. As someone who prefers to work at night than during the day, morning classes are always difficult, especially this semester as I had back to back to back classes. However, regardless of the amount of sleep I would get the night before, when I enter his class I would wake up and pay attention immediately because he would bring this energy to class every morning. That same energy helped me nurture a newfound appreciation for theoretical mathematics.*
- 11. The biggest advantage of Professor Alvarado's teaching that was the most helpful was the energy he brought to each class and it was apparent that he put a lot of time and effort into learning a little about each of his students.*
- 12. He was very involved and always spent the first few min before class just chatting with us, asking how everything is going and checking in about how we were finding the material. He also provided worksheet days which helped me apply what we had learned in lecture and I could ask questions and clarifications I had one on one vs in front of the entire class.*
- 13. His teaching got me interested in the lectures and it was impossible to fall asleep in his class because he made the topics easy and went through the lecture at a moderate pace.*
- 14. I really like his enthusiasm and clear-mannered proof presentation. It helps a lot as this is a proof class.*



*15. I think in Prof. Alvarado's class I found the handouts and review guides/strategies to be very helpful, and I think I benefitted especially from being able to review the notes online to make sure I hadn't missed anything in class. He's also got a fun demeanor and personality, so classes were never unenjoyable.*

*16. Online notes were useful when I needed to go back and check things. Also, you can tell that he is very dedicated to teaching and want us to learn as much as possible.*

*17. I think that the enthusiasm and energy that he brought to each class was very effective. I couldn't zone out during class. I also liked having the online notes. They allowed me to worry less about taking notes and focus more on following the proofs in class.*

*18. I appreciate his volume — keeps us engaged and awake throughout class! More of an intangible, but his passion made the material infinitely more interesting. I was not overcome with joy at how many proofs we had to prepare for exams, but it did force me to learn the material so I guess it was quite effective.*

*19. It seemed like he really cared about all of us learning material and the larger implications that material has on mathematics. It made me want to work harder knowing that professor Alvarado was rooting for me to succeed.*

**6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:**

*1. Perhaps during worksheet days, have some students come up to the board and write out/explain their answers to some questions. It helps draw the class together on a problem that may be difficult instead of having some students fall behind and possibly never figure out the methods and techniques needed to answer a certain proof.*

*2. Not really, it worked well for me.*

*3. I wish he gave practice exams for our midterms.*

*4. No. The class is structured very well*

*5. I don't feel that there should be any changes.*

*6. No changes*

*7. Time is precious in a class that is already short by design. However, it would be helpful if he counted to 4 MISSISSIPPI (however that is spelled) when he asks for questions. It was fine, just needed a liiiiiiittle bit more time.*

*8. No, he was an excellent lecturer who frequently engaged with the class.*

*9. Revisiting the proof structure in a way that revisits the initial material would help solidify the process of building up on content. When proofs got tough, it would have been very useful to take some class time to really revisit the proof structure and necessary parts.*

*10. I felt the pace of the course was a little fast as I and many of my peers have had little to no experience with the material, especially when it comes to writing proofs. If the pace was a little slower, I feel as though I would be able to spend a little more time with each definition and theorem, which would help me solidify my understanding of the material.*

11. *Again the only thing i would recommend is practice problems or a practice exam with detailed solutions. Since proofs are very detail oriented, seeing well written solutions could really help improve studying, and since we cover so much material it would be helpful to see problems the teacher thinks are important enough to be considered when writing the exam.*

12. *The worksheets have so many types of problems on them but it seems there's never enough time in one class to get through even one type of the problem.*

13. *He did suggest that he would split the homework into twice a week rather than once a week, with a shorter number of problems per homework.*

14. *I think he's doing great continuing with this method! Something that he might consider adding is having answer keys to all his problem sets. Then, it would make it easier when we revise them.*

15. *Not really, I felt pretty good about everything.*

16. *When Professor Alvarado asks a question, he always has one specific answer that he wants to hear. So when students say an answer that doesn't line up with what he's thinking, it's very obvious. My advice would be to be more adaptable to the different possible answers if you want students to engage. Also, it would help if he held office hours for more than one hour at a time.*

17. *As much as I liked the online notes, I almost wish that Professor Alvarado had used the chalk-board instead. One day he had to use the chalkboard because his tablet was broken, and I think it slowed the lecture down a little bit, just enough so that the material was a little bit easier to digest. I also found it easier to pay attention looking at the chalkboard rather than at a screen. I also think that the worksheet sessions, while nice, were not all that useful. I would have rather had that time devoted to lecture, so that we felt less like we were rushing through some of the material. Similarly, I think that the beginning of the class could be sped up a little bit so there could be more time devoted to material at the end.*

18. *I really enjoyed the brain teasers and puzzles we had a couple times, and wish we had more of those. Encourages us to actually think about the material in divergent ways outside of class.*

19. *I really liked this course. I don't think there should be changes.*

## **THE COURSE**

### **7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?**

1. *The course material was normal to difficult at times. But, the difficulty was appropriate. This course definitely helped develop my ability to think and solve problems.*

2. *The course was, for me, perfect. I was challenged, but not to the point that the course occupied an undue amount of my time.*

3. *The course became very difficult mid-semester, however, I still think that Professor Alvarado taught it very well. He gave every example possible and overall helped me become a better mathematician and proof writer.*

4. *I think that the course was challenging but manageable. I think that I definitely approach math problems/ideas from a different perspective now. I find myself asking "Why?" much more often than I used to.*

5. *I thought the course material isn't as difficult as it should be, but only is because I didn't spend enough time studying the subject. It certainly helps with thinking about logic in general. Why does this happen this way? I feel that I had the resources to do well in this subject, but didn't take advantage of it.*
6. *I think that the course had a standard level of difficulty. Yes, the problem was helpful in understanding how to write proofs*
7. *The course material is good. Its difficulty is appropriate. The course helped me to start getting a sense of what mathematics as a field (instead of a tool) is like. I am able to recognize problems as just "another one of those" (and not only in math but in life).*
8. *The course and its level of difficulty seemed appropriate and it definitely helped me develop my ability to think and solve problems. The material was all very interesting, especially the topics surrounding cardinality.*
9. *The course was certainly helpful in making me think about problems and proofs in a different way. The course material seemed very simple at first but we went from equivalence relations to functions and comparing sets very quickly and that made the material very difficult.*
10. *The course was much more difficult than I expected, which was relatively difficult already to begin with, but the way Professor Alvarado laid the course out made it so that if I had any questions about the course or didn't feel like I understand any specific topic, then I had plenty of resources to turn to for help. My ability to think and solve problems has improved drastically.*
11. *This course was at an acceptable level of difficulty. The proof portfolio is kind of at an inconvenient time in respect to finals but the course definitely did develop my ability to think and solve problems. I also got way better at proofs.*
12. *Yes. This class was very challenging compared to previous math classes I've taken. It definitely has prepared me for future math classes as well as taught me how to adjust to a very high pace content dense class which I previously had not encountered.*
13. *The course material was challenging, but very doable with effort. It definitely helped me prepare for upper level math classes requiring proof knowledge.*
14. *The material was pretty easy to me as I've tackled proofs before. However, certain materials containing sets and cardinalities, etc were really fun to know. I also learn new methods to prove things ,and work more with proof by contradictions.*
15. *I think that most of the course material had a fairly low-to medium level of difficulty, but I definitely learned a lot of useful information/methods/strategies for mathematical proofs as well as additional things for 355. All of the subjects/topics we covered seemed to be understandable if we put in the time and work to understand them.*
16. *Yes, definitely. I learned to think about math in an entirely new way. At times, the material was very difficult, but it was just a matter of dedicating time to the class. I found the most difficult proof to be the diagonalization proof, and I still have trouble with it now.*
17. *I think that the course had an appropriate amount of difficulty, and I think that it really helped develop my ability to solve problems and write proofs.*
18. *In reflection I don't think the course material is that difficult, I just think it requires a lot of time (which he did emphasize to us). I do think proof-writing has encouraged me to use step-by-step logic in other areas of my life.*

19. This course was definitely pretty difficult. I think it helped me become a better problem solver. Professor Alvarado would give us the tools to do the problem set but the problems on the problem set would always have a twist compared to the examples we had done in class. It made me apply what I had learned rather than replicate it.

**8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?**

1. The division between homework, projects, and exams is fair. I don't feel like putting more or less emphasis on any components would have made the course more valuable.

2. I think it was a good balance.

3. The homework was fair. I wish that we had three exams instead of two.

4. I wish that there would have been less emphasis on the exams and more emphasis on the homework assignments. It was the homework assignments that would make me realize how much/how little I knew about a certain topic.

5. I felt that, since we don't have quizzes, that exam I should be weighed heavier, but I can see why it isn't in that it is the easiest out of the exams.

6. I think that it was perfect.

7. Exams were fine, quizzes did not exist (good), but homeworks are always my weakness. I think that having a homework with one less problem would have gone a long way for me. However, I take five classes and work my maximum so I don't think the others felt the same.

8. I think that it would have been helpful to have a first exam sooner in the semester, so that the second midterm covered less material. It seems like the amount of material on our second midterm and final is pretty similar, which made the second midterm stressful. It was, however, an excellent way to prepare for the final exam.

9. Given that the course material requires so much thought and structure, emphasis on homework or maybe making exams take home I think would have helped take some of the stress off of memorization and focus on understanding the material more profoundly.

10. I felt that the homework assignments and exams were very well laid out. I don't think there is much that could be improved in the coursework.

11. The balance was very good between each category. Maybe if the proof portfolio was a little bit earlier in the semester it would be a little bit easier considering the finals in other classes.

12. No, I think the distribution of homework and exams was fine.

13. I think the division between the homework assignments and exams was good. The exams were mostly centered around homework problems and proofs we covered in the notes, so the exams did a good job to test our understanding of the material.

14. I think it is just fine the way it is now

15. *I thought the consistency in the problem sets was comforting, and the timing/amount of the midterms didn't throw me off too much. Maybe having a bit more emphasis/structure for the proof portfolio or LaTeX would have been helpful when starting it out, but that's not a massive deal.*

16. *More exams! The amount of material on exam 2 was too much and could have been split in half. And it was clear in the average drop.*

17. *I wish that there had been more emphasis on homework. More than the exams it helped me really learn the material. I don't think that the proof portfolio was a useful assignment (other than the proof evaluation section.) I have not gained anything by doing it, and its only extra busy work due at a time (finals week) when there is so much other work to complete.*

18. *I like that there were no quizzes and I like the weekly homework, but I do wish the material had been divided into at least 3 instead of 2 exams.*

19. *I thought the weight of homework, quizzes and tests on our grade was all fair.*

**9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:**

1. *No, not particularly.*

2. *I honestly wouldn't have made any changes.*

3. *Not that I can think of*

4. *The course is fine as is.*

5. *No changes, but I did feel a tad bit intimidated to go to his office hours in that I felt that I concretely needed to nail the subject before coming in for help.*

6. *No changes.*

7. *Yes. I think that the class notes should be downloadable. They might be? I never figured out if they were, but I think that it would have been helpful for me to have them offline as well as online (they were provided to us online).*

8. *I feel as if the proof portfolio could be replaced by a more engaging assignment. The proof evaluation component and the reflection are excellent and could maybe be expanded into something more, but I don't feel as if I got much out of the replication of previous proofs from the semester.*

9. *I think making exams take home would help emphasize understanding over memorization. There should be more time dedicated to the transitions between equivalence relations, pigeon hole principle and comparing sets and the structure of those proofs.*

10. *I myself utilized our math fellow's drop-in hours and the TA hours as much as possible. Professor Alvarado makes it very clear throughout the course that it is normal for us to not be able to understand some of the material that he introduces to us. Thus, it would be on the student if they did not take advantage of the numerous opportunities to get help that would facilitate better student learning.*

11. *There are not any changes that can be made to really help the course, except the practice problems with solutions I mentioned above.*

12. *No.*

13. everything was fine

14. Nil

15. Not especially, I think I learned a whole lot with how the class is currently structured.

16. Because we were always powering through material, I didnt always feel like I had the chance to question the things I was learning which I think should be a big part of this class.

17. Again, I think that more emphasis should be placed on homework, and that maybe the pacing of the course should move a little bit more quickly at the beginning and a little bit more slowly at the middle and end. I also think that Professor Alvarado advertised the exams as more difficult than they actually were, which did motivate me to study (and thus learn) a lot, but I don't know if that small amount of additional understanding was worth the stress.

18. N/A

19. No, I really liked this course.

## YOURSELF

**10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:**

1. It is obvious to me that Professor Alvarado is extremely committed to his teaching and to his students' learning. He is in the top two best professors I have had at Amherst so far. The course material was very well communicated through his teaching methods. Wonderful experience!

2. [No Response]

3. [No Response]

4. Thank you for a great semester! I am really going to miss this class.

5. [No Response]

6. I really enjoyed taking this class and feel that this class really helped me understand the basics of proof writing.

7. Thank you for the efforts, they were visible. I am amazed at the efficiency in your teaching and I am grateful to have had you as my professor.

8. I really loved the course and look forward to taking another class with Professor Alvarado at some point in the future.

9. This was a great course and Professor Alvarado was a wonderful professor. It has been a pleasure to participate in the course, although at times frustrating and stressful.

10. Professor Alvarado is amazing, and his commitment to his students learning and wellbeing is something that I rarely see. He was always available, understanding, and flexible with students and had I not had that, I feel like I would not have been able to enjoy the course as much as I did. I would love to be able to take another class with him in the future.

*11. No comments, he was an excellent professor.*

*12. [No Response]*

*13. [No Response]*

*14. I hope he carried on the great work, and hope to see harder questions / problems on his problem sets next time because I really thirst for more challenges!*

*15. Good stuff, I enjoyed it, thanks professor*

*16. [No Response]*

*17. I think that Professor Alvarado is really committed to his students learning and success. 221 has been one of my favorite courses at Amherst so far, and I know that I have learned valuable skills that I'll be able to take with me in future courses.*

*18. What an impressive and hard-working guy. He makes an effort to get to know everyone in the class, is clearly invested in us as people and not just students, and has an almost perfect attendance of sporting events. A boon and blessing to the Amherst community. Truly grateful that he came to Amherst and that I got the opportunity to take a class with him.*

*19. He was a great teacher! His enthusiasm for the subject was contagious. I'm very happy I took this class.*

**EVALUATION: #1 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes. He was a very enthusiastic professor. He was clear in what he was teaching and kept me motivated about the material even if I struggled a little with keeping up with the content. Professor Alvarado was very willing to help us to succeed by being super accessible and open to hear our thoughts about the course.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes. His online class notes are super helpful for going back and creating definition and theorem sheets as well as for studying for the exams. My nitpicky comment would be very rarely the handwriting could be more clear, but overall the material is presented in a nice way.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes. He always encouraged us to ask questions, answer questions that he posed, and to make comments about the coursework being presented.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Incredible. He was helpful both in-person and electronically. In office hours, he was one of the most helpful professors that I ever had. And if you sent him an email about something, he would always respond as soon as he could. Sometimes, professor Alvarado would even reach out to individual students through email and expand on something that they talked about together in office hours.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*His interpersonal approach. He cared for each and every one of his students' success. I liked that he gave worksheets in class which helped us put the class material to practice while he was available for us to ask questions. His office hours were also extremely helpful and he was willing to extend his hours or schedule hours outside of his regular ones if need be.*



6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Perhaps during worksheet days, have some students come up to the board and write out/explain their answers to some questions. It helps draw the class together on a problem that may be difficult instead of having some students fall behind and possibly never figure out the methods and techniques needed to answer a certain proof.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The course material was normal to difficult at times. But, the difficulty was appropriate. This course definitely helped develop my ability to think and solve problems.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*The division between homework, projects, and exams is fair. I don't feel like putting more or less emphasis on any components would have made the course more valuable.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*No, not particularly.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*It is obvious to me that Professor Alvarado is extremely committed to his teaching and to his students' learning. He is in the top two best professors I have had at Amherst so far. The course material was very well communicated through his teaching methods. Wonderful experience!*

**EVALUATION: #2 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes: he was always energetic and engaged, and it seemed to be a genuine reflection of his passion for the content and for teaching.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes, I think so. Even if he hadn't been clear, his lecture notes were all published on the Moodle site so we could use them any time.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes, he did. More than that, he would ask questions during lecture.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*I never emailed Professor Alvarado and felt like I had to wait to get a response. He had plenty of office hours as well.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I'm bad at picking one element of anything, but his teaching worked well altogether.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Not really, it worked well for me.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The course was, for me, perfect. I was challenged, but not to the point that the course occupied an undue amount of my time.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I think it was a good balance.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I honestly wouldn't have made any changes.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*[No Response]*

**EVALUATION: #3 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Professor Alvarado is one of the most energetic professors I have ever had. He actively engaged students with the material by asking us questions and checking our understanding. If we had any issues, he would always encourage us to come to his office hours. In fact, at the beginning of every class, he would encourage us to come to one of his many office hours.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Professor Alvarado kept all of our class notes in an online notebook, thus they were accessible for us 24/7. His notes were always written clearly and chronologically and were necessary for studying for exams.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Professor Alvarado always asked students questions in order to check their understanding. He never tried to simply lecture; he always kept us engaged and active in the class.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Professor Alvarado had many office hours and was a very accommodating person regarding time and meetings. I did find the office hours helpful because he made sure I understood the concepts behind my questions.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*He is a very energetic person. He is not boring, passive, or confusing. He was clear and very excited to teach.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I wish he gave practice exams for our midterms.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The course became very difficult mid-semester, however, I still think that Professor Alvarado taught it very well. He gave every example possible and overall helped me become a better mathematician and proof writer.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*The homework was fair. I wish that we had three exams instead of two.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Not that I can think of*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*[No Response]*

EVALUATION: #4 (of 19)

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes. I loved the positive energy that Professor Alvarado brought to class every day. He made learning the material very straightforward and fun to learn.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*He presented the material in a very organized way. I loved having the option of just taking in the information because I knew that the notes would be posted online.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes! He would constantly encourage us to participate and make comments regardless of whether we knew the answer or not. He actively encouraged any participation.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*He was very accessible outside of lectures. His office hours, unfortunately, conflicted with my other commitments, so I was not able to attend them as much as I would have liked.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I really enjoyed the energy and positivity with which he taught. He seemed genuinely happy to be there every day and this would make me happy to come to class.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*No. The class is structured very well*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*I think that the course was challenging but manageable. I think that I definitely approach math problems/ideas from a different perspective now. I find myself asking "Why?" much more often than I used to.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I wish that there would have been less emphasis on the exams and more emphasis on the homework assignments. It was the homework assignments that would make me realize how much/how little I knew about a certain topic.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*The course is fine as is.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*Thank you for a great semester! I am really going to miss this class.*

**EVALUATION: #5 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Professor Alvarado is straight to the point in his lectures, as we always focus on the next topic on hand through constant lecture notes. I would say at times, at the beginning of lectures, there would be inspiring moments where he emphasizes the importance of being here at this college and working hard at it.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*The content was organized from math topic to math topic. All notes are available online in an online notebook. All the homework was organized on Gradescope, making it easy to access.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Professor Alvarado is constantly asking for our input. For example, he asks us to guide him in constructing a proof that we **SHOULD** know (emphasizes on should). If we have any questions, we can ask him after the lecture or go to his office hours. He always emphasizes that he is available to help.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*He was accessible in his office hours, opening up extra office hours if he thinks it would benefit us. The only problem lies in me, in that I didn't take advantage of his office hours.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I love his enthusiasm in class and out of class. You can really tell that he loves this subject and loves teaching it to others. It made the classes go by quickly and made it easy to focus on the lectures. Having a voice such as his makes his class far more interesting.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I don't feel that there should be any changes.*



## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*I thought the course material isn't as difficult as it should be, but only is because I didn't spend enough time studying the subject. It certainly helps with thinking about logic in general. Why does this happen this way? I feel that I had the resources to do well in this subject, but didn't take advantage of it.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I felt that, since we don't have quizzes, that exam 1 should be weighed heavier, but I can see why it isn't in that it is the easiest out of the exams.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*No changes, but I did feel a tad bit intimidated to go to his office hours in that I felt that I concretely needed to nail the subject before coming in for help.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*[No Response]*

**EVALUATION: #6 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes, he was very encouraging and the classroom atmosphere was very lively. His office hours were welcoming as well.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes, his online notes, pre exam preparation sheets and other handouts provided made the course easier and clearer.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes, everyone felt encouraged to participate and ask their questions.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Yes, I attended his office hours regularly. He was also very prompt with his email responses.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I think the overall way he presented the material as well as his teaching style were very effective for my learning this course*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*No changes*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*I think that the course had a standard level of difficulty. Yes, the problem was helpful in understanding how to write proofs*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I think that it was perfect.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*No changes.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*I really enjoyed taking this class and feel that this class really helped me understand the basics of proof writing.*

**EVALUATION: #7 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes. Great voice modulation. Superb usage of technology in the classroom (it's math and you still managed to do this). The material was laid out and covered as planned, and he kept pushing everyone in the class to succeed.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes. His understanding of what he teaches is only matched by his enthusiasm for the topics. He is good at teaching. He is methodical yet engaging. He understands how to make someone understand.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes. I was actually one of the students that participated the most and I can say that he definitely encouraged other people to participate as well. Towards the end of the semester other people started being more confident as well. He was inclusive and it worked.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*I wasn't a big "outside-class help" kind of person but I never doubted that if I had to meet him he would be available. Even now in reading period I feel I could have help from him and others feel like this too.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I enjoyed his method. His choice of topics perfectly transitioned into the next. Questions and problems that we solved earlier proved to beautifully stack into more complex topics and thus, we learned.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Time is precious in a class that is already short by design. However, it would be helpful if he counted to 4 MISSISSIPPI (however that is spelled) when he asks for questions. It was fine, just needed a liiiiiiittle bit more time.*

## **THE COURSE**

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The course material is good. Its difficulty is appropriate. The course helped me to start getting a sense of what mathematics as a field (instead of a tool) is like. I am able to recognize problems as just "another one of those" (and not only in math but in life).*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*Exams were fine, quizzes did not exist (good), but homeworks are always my weakness. I think that having a homework with one less problem would have gone a long way for me. However, I take five classes and work my maximum so I don't think the others felt the same.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Yes. I think that the class notes should be downloadable. They might be? I never figured out if they were, but I think that it would have been helpful for me to have them offline as well as online (they were provided to us online).*

## **YOURSELF**

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*Thank you for the efforts, they were visible. I am amazed at the efficiency in your teaching and I am grateful to have had you as my professor.*

**EVALUATION: #8 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes, Professor Alvarado was a fantastic and engaging lecturer. He always encouraged questions and explained concepts very clearly and thoroughly.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes, the online course notebook was a great way to keep the material organized by sections/exams, but it would have been nice if loading a given page on the notebook was easier. The progression of material and amount of time spent on each topic seemed very organized and well thought out, though.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes, he often encouraged questions and checked in with students throughout the lectures to ensure that they understood the material.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Yes, he would always respond to emails quickly, encouraged students to attend his office hours, and would frequently extend his office to provide extra support for students that needed it.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*Professor Alvarado's passion for the topics that he covered really engaged me in the subject and inspired me to get a deeper understanding of the concepts that we were covering. The fact that he chose topics that had very interesting applications in current research and that he cared a lot about clearly came across in his teaching.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*No, he was an excellent lecturer who frequently engaged with the class.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The course and its level of difficulty seemed appropriate and it definitely helped me develop my ability to think and solve problems. The material was all very interesting, especially the topics surrounding cardinality.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I think that it would have been helpful to have a first exam sooner in the semester, so that the second midterm covered less material. It seems like the amount of material on our second midterm and final is pretty similar, which made the second midterm stressful. It was, however, an excellent way to prepare for the final exam.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I feel as if the proof portfolio could be replaced by a more engaging assignment. The proof evaluation component and the reflection are excellent and could maybe be expanded into something more, but I don't feel as if I got much out of the replication of previous proofs from the semester.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*I really loved the course and look forward to taking another class with Professor Alvarado at some point in the future.*

**EVALUATION: #9 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes. Professor Alvarado encouraged participation and handled complicated material in a consistent and thorough way. Sometimes the content was discussed in such an abstract way that achieving rigor in proofs seemed like a daunting task but Prof. Alvarado held office hours that were designed to address such situations.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes. Building up to the proof writing process was very important for the later on portions. In the future though, I think revisiting the proof structure in a way that revisits the initial material would help solidify the process of building up on content.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes. He would encourage participation and often call on people to help with proof-writing in class. This kept the learning process engaging and welcoming.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Office hours were very helpful the times I attended.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*The use of electronics was a strong aid to the course and his way of deconstructing a proof into smaller claims and then proceeding to address them was very useful.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Revisiting the proof structure in a way that revisits the initial material would help solidify the process of building up on content. When proofs got tough, it would have been very useful to take some class time to really revisit the proof structure and necessary parts.*



## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The course was certainly helpful in making me think about problems and proofs in a different way. The course material seemed very simple at first but we went from equivalence relations to functions and comparing sets very quickly and that made the material very difficult.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*Given that the course material requires so much thought and structure, emphasis on homework or maybe making exams take home I think would have helped take some of the stress off of memorization and focus on understanding the material more profoundly.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I think making exams take home would help emphasize understanding over memorization. There should be more time dedicated to the transitions between equivalence relations, pigeon hole principle and comparing sets and the structure of those proofs.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*This was a great course and Professor Alvarado was a wonderful professor. It has been a pleasure to participate in the course, although at times frustrating and stressful.*

**EVALUATION: #10 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Professor Alvarado was always extremely enthusiastic about the course content and brought an energy to the class that not only engaged students but also allowed to*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*When learning the material for the first time, it appears to be very confusing and overwhelming. However, Professor Alvarado presents the material in an extremely well organized and clear manner, as I am able to look back on my notes and understand exactly what his train of thought was when introducing the material to us in the first place.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes, he always checks in between topics to make sure no one has any questions. He also regularly reminds us of his office hours to make sure we are able to reach him if we are not comfortable enough to reach out in front of the class.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Yes, he responded to emails quickly and would always make time for the student.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I enjoyed his enthusiasm. As someone who prefers to work at night than during the day, morning classes are always difficult, especially this semester as I had back to back to back classes. However, regardless of the amount of sleep I would get the night before, when I enter his class I would wake up and pay attention immediately because he would bring this energy to class every morning. That same energy helped me nurture a newfound appreciation for theoretical mathematics.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I felt the pace of the course was a little fast as I and many of my peers have had little to no experience with the material, especially when it comes to writing proofs. If the pace was a little slower, I feel as though I would be able to spend a little more time with each definition and theorem, which would help me solidify my understanding of the material.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The course was much more difficult than I expected, which was relatively difficult already to begin with, but the way Professor Alvarado laid the course out made it so that if I had any questions about the course or didn't feel like I understand any specific topic, then I had plenty of resources to turn to for help. My ability to think and solve problems has improved drastically.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I felt that the homework assignments and exams were very well laid out. I don't think there is much that could be improved in the coursework.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I myself utilized our math fellow's drop-in hours and the TA hours as much as possible. Professor Alvarado makes it very clear throughout the course that it is normal for us to not be able to understand some of the material that he introduces to us. Thus, it would be on the student if they did not take advantage of the numerous opportunities to get help that would facilitate better student learning.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*Professor Alvarado is amazing, and his commitment to his students learning and wellbeing is something that I rarely see. He was always available, understanding, and flexible with students and had I not had that, I feel like I would not have been able to enjoy the course as much as I did. I would love to be able to take another class with him in the future.*

EVALUATION: #11 (of 19)

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes, Professor Alvarado did an excellent job keeping me engaged in the course content because he had a very upbeat and positive attitude. The energy he brought to class made the material seem more interesting and made me more interested in trying to understand it.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*For the most part the material was presented in a well organized and clear manner. The only thing i would add, in addition to the material would be a set of practice problems before each exam with detailed solutions.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes he did encourage students to ask questions and help push the material forward themselves.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Yes he had office hours outside of class and they were very helpful.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*The biggest advantage of Professor Alvarado's teaching that was the most helpful was the energy he brought to each class and it was apparent that he put a lot of time and effort into learning a little about each of his students.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Again the only thing i would recommend is practice problems or a practice exam with detailed solutions. Since proofs are very detail oriented, seeing well written solutions could really help improve studying, and since we cover so much material it would be helpful to see problems the teacher thinks are important enough to be considered when writing the exam.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*This course was at an acceptable level of difficulty. The proof portfolio is kind of at an inconvenient time in respect to finals but the course definitely did develop my ability to think and solve problems. I also got way better at proofs.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*The balance was very good between each category. Maybe if the proof portfolio was a little bit earlier in the semester it would be a little bit easier considering the finals in other classes.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*There are not any changes that can be made to really help the course, except the practice problems with solutions I mentioned above.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*No comments, he was an excellent professor.*

**EVALUATION: #12 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes. He always kept a high energy in the class and kept us involved by asking us questions throughout the lecture.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes. The notes were always well organized and color coordinated and available online.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes. He would pause after covering difficult material as well as basic definitions allowing us to ask questions.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Yes. He was extremely prompt in responding to emails and held many office hours, especially before midterms. These were extremely helpful for reviewing for the exams.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*He was very involved and always spent the first few min before class just chatting with us, asking how everything is going and checking in about how we were finding the material. He also provided worksheet days which helped me apply what we had learned in lecture and I could ask questions and clarifications I had one on one vs in front of the entire class.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*The worksheets have so many types of problems on them but it seems there's never enough time in one class to get through even one type of the problem.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*Yes. This class was very challenging compared to previous math classes I've taken. It definitely has prepared me for future math classes as well as taught me how to adjust to a very high pace content dense class which I previously had not encountered.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*No, I think the distribution of homework and exams was fine.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*No.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*[No Response]*

**EVALUATION: #13 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes, Professor Alvarado was very enthusiastic every lecture which made the material easier to absorb and understand.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Professor Alvarado was very clear with his material, and would stop and take the time to answer many questions if certain ideas were unclear.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Professor Alvarado encouraged everyone to contribute to his lecture and ask questions/complete the sentence for what he was looking for. He kept everyone engaged in that manner as well.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Professor Alvarado held useful office hours and was very careful to help each student that had a question understand it until he/she understood it. Also, there were many other office hours outside of Professor Alvarado's hours that were accessible.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*His teaching got me interested in the lectures and it was impossible to fall asleep in his class because he made the topics easy and went through the lecture at a moderate pace.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*He did suggest that he would split the homework into twice a week rather than once a week, with a shorter number of problems per homework.*



## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The course material was challenging, but very doable with effort. It definitely helped me prepare for upper level math classes requiring proof knowledge.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I think the division between the homework assignments and exams was good. The exams were mostly centered around homework problems and proofs we covered in the notes, so the exams did a good job to test our understanding of the material.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*everything was fine*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*[No Response]*

**EVALUATION: #14 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Professor Alvarado was very friendly in class. However, I sometimes feel like he would prefer students who are a bit weaker to answer questions (which I think is great) so I couldn't participate as much as I would want to.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*The materials were logical and clear. It would be better if he has a definite plan in the beginning so that students know where the beginning and end goal will be, which I believe he will have next time as this is only his first semester here.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Most definitely! I believe that is the greatest thing about Professor Alvarado's style of teaching. He always probes students to answer questions and be engaged during class.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*He is very accessible during office hours! However, a suggestion for the future would be to separate 111 OH from 271 OH then we could have his undivided attention rather than having to share it with another section.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I really like his enthusiasm and clear-mannered proof presentation. It helps a lot as this is a proof class.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I think he's doing great continuing with this method! Something that he might consider adding is having answer keys to all his problem sets. Then, it would make it easier when we revise them.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*The material was pretty easy to me as I've tackled proofs before. However, certain materials containing sets and cardinalities, etc were really fun to know. I also learn new methods to prove things ,and work more with proof by contradictions.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I think it is just fine the way it is now*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Nil*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*I hope he carried on the great work, and hope to see harder questions / problems on his problem sets next time because I really thirst for more challenges!*

**EVALUATION: #15 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes, I always felt very engaged in class in whatever Prof. Alvarado was teaching and felt motivated to understand everything both in class and when studying/doing problem sets.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes, I felt that the class's structure and Prof. Alvarado's teaching style and use of the projected/online notes were all very helpful to my success in the class.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes, I don't think anyone in my class or I ever felt discouraged to ask a question or for clarification, and we got helpful answers when we did.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Yes, I always received very useful information during office hours for help with problem sets, studying for midterms, or talking about the department/life stuff.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I think in Prof. Alvarado's class I found the handouts and review guides/strategies to be very helpful, and I think I benefitted especially from being able to review the notes online to make sure I hadn't missed anything in class. He's also got a fun demeanor and personality, so classes were never unenjoyable.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Not really, I felt pretty good about everything.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*I think that most of the course material had a fairly low-to medium level of difficulty, but I definitely learned a lot of useful information/methods/strategies for mathematical proofs as well as additional things for 355. All of the subjects/topics we covered seemed to be understandable if we put in the time and work to understand them.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I thought the consistency in the problem sets was comforting, and the timing/amount of the midterms didn't throw me off too much. Maybe having a bit more emphasis/structure for the proof portfolio or LaTeX would have been helpful when starting it out, but that's not a massive deal.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Not especially, I think I learned a whole lot with how the class is currently structured.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*Good stuff, I enjoyed it, thanks professor*

EVALUATION: #16 (of 19)

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes! Professor Alvarado always came to class in an energetic mood and was always excited about the material he taught.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes, but I didnt always get everything the first time around. However, I still think that he explained it in an organized and clear manner.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Professor Alvarado always encouraged students to engage in the lectures.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*He did have office hours. However, I utilized Allison more than him. She was an AMAZING resource for this class and really helped me understand the material when I didn't get it the first time around. Also, being in her office hours was a much more comfortable environment for me.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*Online notes were useful when I needed to go back and check things. Also, you can tell that he is very dedicated to teaching and want us to learn as much as possible.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*When Professor Alvarado asks a question, he always has one specific answer that he wants to hear. So when students say an answer that doesn't line up with what he's thinking, it's very obvious. My advice would be to be more adaptable to the different possible answers if you want students to engage.*

*Also, it would help if he held office hours for more than one hour at a time.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*Yes, definitely. I learned to think about math in an entirely new way. At times, the material was very difficult, but it was just a matter of dedicating time to the class. I found the most difficult proof to be the diagonalization proof, and I still have trouble with it now.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*More exams! The amount of material on exam 2 was too much and could have been split in half. And it was clear in the average drop.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Because we were always powering through material, I didnt always feel like I had the chance to question the things I was learning which I think should be a big part of this class.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*[No Response]*

EVALUATION: #17 (of 19)

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes, Professor Alvarado created an engaging and motivating class environment. He was always energetic when he lectured, and he encouraged class participation. I appreciated that he always stressed that we would get only as much out of the course as we put in, and that he emphasized improving (rather than perfectly knowing the material or proof techniques the first time through).*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes. The topics covered in the class seemed to build on each other. For example with indexed sets, we were introduced to them earlier on in the course, but they came back when we were covering the real numbers to connect with that material. Seeing index sets again was helpful for learning that material, and it was also useful for learning the new material to see it applied to something we had seen before.*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes. He always encouraged students to comment and ask questions during class. He would also sometimes cold call people he thought might have an answer (although this didn't always turn out to be the case).*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Professor Alvarado was accessible outside of lectures. Office hours were helpful. When I needed to go to office hours but I couldn't because of a conflict with another class or activity, I was able to schedule another time to meet with professor Alvarado.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I think that the enthusiasm and energy that he brought to each class was very effective. I couldn't zone out during class. I also liked having the online notes. They allowed me to worry less about taking notes and focus more on following the proofs in class.*



6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*As much as I liked the online notes, I almost wish that Professor Alvarado had used the chalkboard instead. One day he had to use the chalkboard because his tablet was broken, and I think it slowed the lecture down a little bit, just enough so that the material was a little bit easier to digest. I also found it easier to pay attention looking at the chalkboard rather than at a screen. I also think that the worksheet sessions, while nice, were not all that useful. I would have rather had that time devoted to lecture, so that we felt less like we were rushing through some of the material. Similarly, I think that the beginning of the class could be sped up a little bit so there could be more time devoted to material at the end.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*I think that the course had an appropriate amount of difficulty, and I think that it really helped develop my ability to solve problems and write proofs.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I wish that there had been more emphasis on homework. More than the exams it helped me really learn the material. I don't think that the proof portfolio was a useful assignment (other than the proof evaluation section.) I have not gained anything by doing it, and its only extra busy work due at a time (finals week) when there is so much other work to complete.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*Again, I think that more emphasis should be placed on homework, and that maybe the pacing of the course should move a little bit more quickly at the beginning and a little bit more slowly at the middle and end. I also think that Professor Alvarado advertised the exams as more difficult than they actually were, which did motivate me to study (and thus learn) a lot, but I don't know if that small amount of additional understanding was worth the stress.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*I think that Professor Alvarado is really committed to his students learning and success. 221 has been one of my favorite courses at Amherst so far, and I know that I have learned valuable skills that I'll be able to take with me in future courses.*

**EVALUATION: #18 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Professor Alvarado clearly went above and beyond in terms of the time and care he devoted to every aspect of our class. As much as I love proofs, it was him who truly inspired me to work hard.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*He was obviously and thoroughly prepared for every class — and not just because of his stacks of notes! He fluidly presented theoretical material alongside concrete examples, and his atomic understanding of the material was evident. Clear that he was once in show biz!*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*He engaged us throughout class with questions, and welcomed them in turn. I was especially impressed by the way he nurtured individual relationships with each student, so that no one felt uncomfortable being asked or answering questions in class.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Great about email, outstanding in terms of demonstrated interest in discussing material outside of class. I wish he had more office hours I could attend, but there were many other great and accessible resources.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*I appreciate his volume — keeps us engaged and awake throughout class! More of an intangible, but his passion made the material infinitely more interesting.*

*I was not overcome with joy at how many proofs we had to prepare for exams, but it did force me to learn the material so I guess it was quite effective.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I really enjoyed the brain teasers and puzzles we had a couple times, and wish we had more of those. Encourages us to actually think about the material in divergent ways outside of class.*

## **THE COURSE**

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*In reflection I don't think the course material is that difficult, I just think it requires a lot of time (which he did emphasize to us). I do think proof-writing has encouraged me to use step-by-step logic in other areas of my life.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I like that there were no quizzes and I like the weekly homework, but I do wish the material had been divided into at least 3 instead of 2 exams.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*N/A*

## **YOURSELF**

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*What an impressive and hard-working guy. He makes an effort to get to know everyone in the class, is clearly invested in us as people and not just students, and has an almost perfect attendance of sporting events. A boon and blessing to the Amherst community. Truly grateful that he came to Amherst and that I got the opportunity to take a class with him.*

**EVALUATION: #19 (of 19)**

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**TEACHING: Please comment on Professor Alvarado as a teacher.**

1. Did Professor Alvarado create an atmosphere that kept you engaged in the course content and motivated you to succeed? Please comment on your response.

*Yes! All of his lectures were very interesting and kept us engaged with the course material.*

2. Did Professor Alvarado present the material in a well-organized and clear manner? Please comment on your response.

*Yes, the material was presented well. There was also an online link to all of our class notes, so that also helped us stay organized*

3. Did Professor Alvarado encourage students to make comments/ask questions during lecture? Please comment on your response.

*Yes, we would often ask questions about concepts we didn't understand, and he would explain the concept in a different way.*

4. Was Professor Alvarado accessible outside of lectures (in-person, electronically, or both)? If you utilized office hours, did you find them helpful?

*Yes, he was accessible outside of lectures.*

5. What are some aspects of Professor Alvarado's teaching that you most enjoyed and felt were particularly effective for your learning in this course?

*It seemed like he really cared about all of us learning material and the larger implications that material has on mathematics. It made me want to work harder knowing that professor Alvarado was rooting for me to succeed.*

6. Do you feel that there are any changes Professor Alvarado can make in his teaching to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*I really liked this course. I don't think there should be changes.*

## THE COURSE

7. What did you think of the course material and its level of difficulty? Did the course help you develop your ability to think and to solve problems?

*This course was definitely pretty difficult. I think it helped me become a better problem solver. Professor Alvarado would give us the tools to do the problem set but the problems on the problem set would always have a twist compared to the examples we had done in class. It made me apply what I had learned rather than replicate it.*

8. What did you think of the division between homework assignments, quizzes, and exams? If there had been distinctly more or less emphasis on any of these components, would it have made the course more valuable?

*I thought the weight of homework, quizzes and tests on our grade was all fair.*

9. Do you feel that there are any changes that can be made to the course to help better facilitate student learning? Please explain why you are suggesting this particular change or set of changes:

*No, I really liked this course.*

## YOURSELF

10. If you have any other comments on Professor Alvarado's teaching, his commitment to his students' learning, or on the course itself, please write them here:

*He was a great teacher! His enthusiasm for the subject was contagious. I'm very happy I took this class.*