

EVALUATION: #1 (of 15)

Thank you for taking the time to provide feedback about your experience in this course. Teaching is highly valued at Amherst, and your reflections are an important part of our efforts to assess and improve our teaching. Please be thoughtful, fair, and honest. Your instructor will be able to view your responses only after final grades have been submitted, and to them your identity will be anonymous. As part of the reappointment, tenure, and promotion process, your responses will also be read by the president, provost and dean of the faculty, and other senior faculty, and to them your identity will not be anonymous.

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

For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
|--|---------------|
| • Prepare for class | <i>always</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>often</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

going to office hours and pursuing extra help

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

Professor Alvarado was a presence in my life beyond that of a lecturer, he is an astoundingly good communicator who took grandiose issues with understanding and helped to avoid disaster many times

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

All the math we learned was pretty huge

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

It was a very fast course, which proved to be difficult, however not impossible

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Professor Alvarado made time to meet with me beyond his office hours, at his office hours he was very good at distributing his time to everyone who came to meet, while also consolidating questions to address larger overarching issues for each of us.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

NA

EVALUATION: #2 (of 15)

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| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

Spend time reviewing notes after class... especially on the "off" days (Tues/Th). A lot of these concepts just take time to understand. The theorem definition sheets were a great way to force me to review at the end of each week and come in with questions!

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

This class definitely got me more interested in continuing down the math major pathway. Prof. Alvarado's systematic way of going over proofs, definitions, etc. made me feel comfortable with the new language of math (learning proof techniques).

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

Practicing the overall concept of breaking down complex things into simpler objects which we can then study. I think most will agree the actual calculations of linear algebra are very simple, and Prof. Alvarado made it very clear that he wanted to emphasize the former, not the latter, in this class.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

Pace of some proofs were definitely fast. I think it's reasonable if you give the warning that you need to spend time with it alone (going over it, rethinking it, etc.) to really keep up. Weekly assignments were a great way for me to check-in with myself and own understanding. Finally, in-class notes being color-coordinated is a HUGE HUGE HUGE help. (Did I say it was HUGE?)

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Prof. Alvarado brings both energy and a certain "cool" casualness to math that I do not often find with other professors. It makes the content more engaging and feel more comfortable... even if I am really struggling to understand it. He is very observant of the room and can guess when we are all needing more clarification with a topic.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Looking forward to taking future classes with Prof. Alvarado!

EVALUATION: #3 (of 15)

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| • Participate in class | <i>always</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

I made theorem sheets that helped a lot and reread my notes, but Prof. Alvarado told us to do these things.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

He got me more interested in higher-level math. And taught me abstract ways to solve math problems and to look at the math.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

*Using abstract methods to solve abstract problems.
Proof writing and formulating arguments.*

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

Yes, they were all good a little fast at times.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Extremely good he was and accommodating during office hours and I met with him one on one a couple of times those sessions were beneficial. He truly cares about his students and their learning.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

The Amherst College Math department is a much better place with Prof. Alvarado.

EVALUATION: #4 (of 15)

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For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
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| • Prepare for class | <i>always</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>rarely</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

I found it very helpful to go to office hours and fellow hours because the problem sets were very challenging and I would not have been able to do them without extra help at office hours or fellow hours. Also, there was a lot of material covered quickly in this class so it helped to spend extra time learning to understand some of the material in a smaller group at office hours.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

The instructor was very open to talking about continuing my interest in math and provided an interesting perspective on future math classes. Also, at the end of the course, the professor provided some very interesting examples of applications of the material learned in the course.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

This course helped me transition to higher level math classes by exposing me to more abstract types of math and introducing me to writing proofs.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

The pace was a little bit too fast at times, which sometimes made the course frustrating. However, I understand there is a lot of material to cover, and there was always extra help available at office hours and fellow hours, which helped with the fast pace of classes. The expectations of the course and assignments were always clear, and the course was very well organized overall.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

The instructor was extremely friendly and really cared about all of the students in the class. I was very impressed with the instructor's genuine interest in the learning and well-being of all students. The instructor was very engaged and cultivated a very inclusive learning environment. the professor was also very available outside of class at office hours and was responsive to emails as well.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Not answered

EVALUATION: #5 (of 15)

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For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
|--|------------------|
| • Prepare for class | <i>rarely</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>often</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>sometimes</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

Attend Q fellow hours (because I can rarely make office hours) to do my HW and ask quetsions and get answers in real time

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

I wasn't sure if I wanted to major in math and I think that this course has informed me on the way the major would work and how accommodating the professors can be to make sure that I learn in the best possible way.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

Proof writing/reasoning and thinking in a logical way that can be communicated to others.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

I thought that the pace of the course was good and that it was very structured and organized, which I appreciate. I think that the level of challenge on the homework definitely pushed me to understand the concepts better. I wish that we could have had more in class practice on proof logic as that is something that I still struggle with.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Prof Alvarado is a very engaging, enthusiastic (and funny!) professor. He is very receptive to questions and elaborates/explains in various ways to address confusion. My classes overlap with almost all of the scheduled office hour times so I cannot often make it to his office hours but I often ask short questions after class and he is very willing to help and listen. I get a lot of feedback on my work!

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Not answered

EVALUATION: #6 (of 15)

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For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
|--|------------------|
| • Prepare for class | <i>always</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>sometimes</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>always</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

I read over the notes every night after each lecture. I made sure specifically to look at the proofs extra carefully so that I could follow the line of thinking. I also tried to make sure that I understood matrix operations, such as change of basis (i.e. what does every step mean?)

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

Professor Alvarado is a great lecturer. He is very enthusiastic and excited to teach math. The classroom atmosphere is awesome. He truly cares about his students, always asking about their extracurriculars. I like the way that Alvarado made the different subjects in this course connect. I felt like the way he taught made everything seem important as it was all related in the end.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

I became more confident in complex proof-writing. I also became comfortable working with linear maps and matrices. I learned how to justify and understand why we applied operations (not just doing them blindly).

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

Even though we had fewer lectures this semester than previously, I still did not feel too rushed during the lectures. There were definitely some weeks where we covered more theorems and definitions and some weeks where we focused more on the specifics of important proofs. The assignments were reasonable since we had a problem set and theorem definition sheet due weekly. Going to office hours and discussing the concepts really helped my understanding. I went to office hours with both Noah Soloman and Professor Alvarado.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Professor Alvarado made sure to answer every question to the fullest extent. He would justify his responses verbally and in a written manner if that would be helpful. Professor Alvarado made himself available during office hours but was also more than willing to set up an individual appointment at the request of his students. He left detailed comments on our take-home exams so that we could better learn from our mistakes.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Not answered

EVALUATION: #7 (of 15)

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For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

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|--|------------------|
| • Prepare for class | <i>always</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>sometimes</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

Professor Alvarado was always engaging and made the class interesting. He kept me engaged in the material.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

He got me thinking about how math can be used beyond our conventional thinking and how it can be used in an infinite sense

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

Resiliency and the ability to overcome tough problems

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

The course was clear and the assignments and pace were fair.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Professor Alvarado was the sole reason I didn't drop this class at the beginning of the semester. I wasn't feeling mentally well and he took the time to help me figure out how I could best learn

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Not answered

EVALUATION: #8 (of 15)

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For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

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| • Prepare for class | <i>always</i> |
| • Attend class | <i>often</i> |
| • Participate in class | <i>rarely</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>sometimes</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

Doing psets and theorem definition sheets on time, as well as consolidating material by watching videos that explained things differently. Additionally, reading the textbook to get a feel for mathematical notation.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

Prof. Alvarado really made me consider the beauty of math, by making complex topics seem approachable and something that I could grasp if I put the effort into it. He was always incredibly encouraging and knew where my confusion lay when I asked a question in class or in office hours. Additionally, the way he taught proofs in this class was highly understandable despite the fact I have never taken a proofs-based class before. I really enjoyed my time in this class.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

Probably reading mathematical notation and working my way through a problem I don't initially understand by beginning from a place I do understand and then slowly building up to the final conclusion. It was the first math class where I enjoyed the thought process as it was more logic and thinking than purely computation or memorization.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

The theorem definition sheets kept me organized, and doing a pset every week also helped me consolidate the material. I also really appreciated the exams being take-home as they were more about applying skills and problem-solving than simply memorizing. Additionally, Prof. Alvarado was a fantastic lecturer and helped me understand the material. He has a way of making complex topics seem easy to grasp if you put in some effort to read over your notes later. The way the class was designed made it the best math class I have taken at Amherst.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Prof. Alvarado always provides extremely insightful feedback on the work I hand in, and it is always clear what he expects from me. In his exams and psets, there are no trick questions, just opportunities for you to show what you have learned and practice what you have learned. I also felt like the psets weren't just busywork, but instead deliberately set questions to practice what we had learned. Prof. Alvarado is also highly encouraging inside and outside class, and filled the course with so much passion and joy it made me excited to learn. He is also extremely available to meet and just talk about maths and give advice, which I truly appreciate.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

I loved the class and I think Prof. Alvarado is the best maths prof. in the department :)

EVALUATION: #9 (of 15)

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1. How often did you:

- | | |
|--|------------------|
| • Prepare for class | <i>sometimes</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>often</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>always</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

I found that reviewing class notes and going to office hours were effective in helping me understand the course material.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

Professor Alvarado always emphasized looking at the bigger mathematical picture when we were learning new concepts and that helped me link concepts together and overall made me love linear algebra, and the beauty of all the topics and concepts were learned throughout the semester.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

Over the course of the semester, I learned how to write comprehensive proof and how to tackle difficult theoretical math problems.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

I thought that the pace of the course was very good. We covered a lot of material each week but we always learned concepts in depth which I found very helpful. The homework assignments were extremely helpful in helping me solidify my understanding of the concepts we discussed in class, and I found that they were a nice length since I was rarely overwhelmed by not being to complete them on time.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

I've talked with Professor Alvarado after class as well as in office hours. He is extremely engaging and friendly with all his students and is very helpful and detail oriented during office hours. In addition, he provides very helpful feedback on exams.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

I've really enjoyed my semester of Linear Algebra with Professor Alvarado, and I think that Prof. Alvarado played a big role in my new love for theoretical math.

EVALUATION: #10 (of 15)

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1. How often did you:

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|--|------------------|
| • Prepare for class | <i>often</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>sometimes</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>always</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

I would attend office hours to clarify my understanding of the content we covered during lecture hours. Just recently we introduced Inner Products and Inner Product Spaces and I went to office hours to ask questions about the definitions, theorems, and propositions about it. I asked about defining Inner Products for various different vector spaces and examples of norms and inner products.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

Professor Alvarado made me realize how mathematicians are scientists who approach problems in their own way to solve them. A really impactful example would be when he explained the conception of Google's page rank algorithm. He showed how it was a direct application of linear algebra, more specifically matrix multiplication, that we were more than capable than understanding by the end of the semester. More importantly, he stressed that using math in such a creative and clever way was not exclusive to people in academia, like accomplished Professors,

but could be done by us, the students. He further encouraged us to use math, any math that we've learned, to solve problems we come across that don't immediately seem obvious to us.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

Understanding how to make sound proof arguments was the most significant skill I gained during this course. A good example of this, is when I was doing a homework question that involved a proof of some equality between two expressions. I was able to verbally explain my argument to him during office to show that I understood the math behind the proof. He noticed that the framing of explanation was similar to a contrapositive proof and suggested I try to explicitly use that for answer to the question.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

I feel the course was extremely well organized. Lecture content was always available outside of class thanks to the online course notebook. Expectations for homework and exams were always made clear. If a misunderstanding ever happened, he would always be quick to clarify the meaning of a question or expectations about answers to question through an email. Moreover, as a Math course, the order of content he introduced to us was masterfully done. He started off with a broad concept like vector spaces to more specific, concrete concepts like bases and linear maps. That allowed each chapter and unit to follow each other in a way that felt natural and comprehensible.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Professor Alvarado was always very kind and approachable in his interactions with me and every other student. He would be fair in deciding who to call on to participate in class and who he would help during office hours. As a math professor teaching a course where people may or may not have any proof or linear algebra experience, he was always reassuring that we were doing well in the class despite the difficulty and our unfamiliarity in the course.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Overall, Professor Alvarado was a phenomenal professor for the course, and I am very glad I had the pleasure of having him as a professor at my time at Amherst. And as an aside, he was also very funny.

EVALUATION: #11 (of 15)

Thank you for taking the time to provide feedback about your experience in this course. Teaching is highly valued at Amherst, and your reflections are an important part of our efforts to assess and improve our teaching. Please be thoughtful, fair, and honest. Your instructor will be able to view your responses only after final grades have been submitted, and to them your identity will be anonymous. As part of the reappointment, tenure, and promotion process, your responses will also be read by the president, provost and dean of the faculty, and other senior faculty, and to them your identity will not be anonymous.

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

For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
|--|------------------|
| • Prepare for class | <i>always</i> |
| • Attend class | <i>often</i> |
| • Participate in class | <i>sometimes</i> |
| • Complete assignments | <i>often</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

Going to office hours were very helpful for understanding the content and finishing my homework. It is also a nice place to talk to my classmates about the homework if the professor is busy with someone else's questions. But listening to other people's questions is also helpful because you may learn something that you did not know that you did not know.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

Not answered

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

Proofs and writing proofs. It was difficult and is still difficult but I was able to understand the general concept of writing a proof for math.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

The pace was fine, it was fast but I was somehow able to keep up enough.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

The teacher is very energetic and supportive, and makes you feel like math is not so bad of a major option.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Not answered

EVALUATION: #12 (of 15)

Thank you for taking the time to provide feedback about your experience in this course. Teaching is highly valued at Amherst, and your reflections are an important part of our efforts to assess and improve our teaching. Please be thoughtful, fair, and honest. Your instructor will be able to view your responses only after final grades have been submitted, and to them your identity will be anonymous. As part of the reappointment, tenure, and promotion process, your responses will also be read by the president, provost and dean of the faculty, and other senior faculty, and to them your identity will not be anonymous.

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

For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
|--|---------------|
| • Prepare for class | <i>often</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>often</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

When I did all the assignments for the class, I either went to TA hours or office hours and both of those were super helpful. It was great to work with other students in addition to the professor/TA to figure out problems and learn. Whenever I had any questions about the homework, I went to them.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

The course and Professor Alvarado truly shaped the way I think about math. This was my first introduction to proofs and linear algebra in general and I enjoyed it so much that it convinced me to become a math major. I feel like learning about proofs made math more like a puzzle than rote memorization while still having the comfort of some step-by-step calculations. It also made me question math more deeply. Instead of simply accepting facts presented in math, I felt like I really had to convince myself of the theorems and the content. The course made me significantly more interested in math and linear algebra.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

The most significant skills I gained or further developed in this course was learning how to write proofs. I liked that we just learned proofs by seeing what the professor did in class, and I think they were explained well enough that I didn't need any prior proof experience to do well in the class. I had never done any proofs before so just learning about the notation and some proof techniques like induction, double containment, contrapositive, etc. was really interesting and valuable since I think most higher level math involves proofs.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

I thought the course was really well designed. In the beginning, it felt really fast-paced because the content was so new and fairly abstract coming from high school calculus. However, as the course progressed, the pace, although it didn't really change, felt like it slowed down because I understood the material better. I think the lecture format with the notes on the tablet was incredibly helpful. I really liked having the ability to go online and see the notes from class, and it was really useful if I was stuck on some concept because I had written the wrong thing down or something during the lecture. I thought the expectations for the course were clear, but I felt like the grade on the first exam was relatively surprising just because the grading was more stringent on the exams vs. the homework. So for the first exam, I was less sure about what Professor Alvarado's expectations were. However, for the second exam, I felt like it became a lot more clear since he gave specific advice on improvements from the first exam and posted the exam solutions afterwards. I think assignments are really informative in this class. I found the theorem-definition sheets a good way to recap the week's worth of content and as reference material for homework. I also thought the homework was pretty fair in content and accurately reflected the content we learned in class. It was good to be able to practice proofs/concepts learned in class to reinforce the material and prepare for exams.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

Professor Alvarado is super energetic and engaging during and outside of class. During class, he always tries to gauge our understanding of the material and encourages us to ask questions. He has office hours frequently and I was always able to get to at least one of the times each week to ask homework questions. I think the feedback from exams he gives is pretty useful as well.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

I loved this class! I was originally doubting whether I would do a math major, but I'm really glad I started with linear algebra because it's become my favorite class of the semester. Professor Alvarado is an amazing teacher!

EVALUATION: #13 (of 15)

Thank you for taking the time to provide feedback about your experience in this course. Teaching is highly valued at Amherst, and your reflections are an important part of our efforts to assess and improve our teaching. Please be thoughtful, fair, and honest. Your instructor will be able to view your responses only after final grades have been submitted, and to them your identity will be anonymous. As part of the reappointment, tenure, and promotion process, your responses will also be read by the president, provost and dean of the faculty, and other senior faculty, and to them your identity will not be anonymous.

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

For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
|--|---------------|
| • Prepare for class | <i>always</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>always</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

I would look over the proofs written in the notes and use that to improve my own proof-writing. I also would go to office hours, sometimes just to work on homework and listen to the questions other people asked.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

I found that I really like proof-writing and linear algebra. I chose to take Linear 2 because of how much I liked the course. The professor would give us challenging homework problems that let us practice a variety of proofs.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

I learned a lot about writing proofs and mathematical problem solving.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

Not answered

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

The professor was always had a lot of energy, which was nice when the class seemed tired. He would help people get excited about math which made for a good classroom environment. The professor holds a lot of office hours, so if one day doesn't work for you, there's three other days you could go to office hours.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

I loved this class a lot, and I definitely think that the particular professor had a large impact on the positive experience I had with the class. I hope to be able to take another class with the professor in the future.

EVALUATION: #14 (of 15)

Thank you for taking the time to provide feedback about your experience in this course. Teaching is highly valued at Amherst, and your reflections are an important part of our efforts to assess and improve our teaching. Please be thoughtful, fair, and honest. Your instructor will be able to view your responses only after final grades have been submitted, and to them your identity will be anonymous. As part of the reappointment, tenure, and promotion process, your responses will also be read by the president, provost and dean of the faculty, and other senior faculty, and to them your identity will not be anonymous.

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

For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
|--|------------------|
| • Prepare for class | <i>sometimes</i> |
| • Attend class | <i>often</i> |
| • Participate in class | <i>sometimes</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>sometimes</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

Going to office hours and math fellow hours.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

Prof. Alvarado prepared us to understand the connections and usefulness of concepts and definitions that are otherwise lost to me in their apparent arbitrariness.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

Knowledge about Linear algebra, proof writing

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

The assignments and expectations were manageable, and the pace felt adequately challenging, and overall I felt the design of the course was clear and well-engineered.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

The instructor was very friendly and approachable, and made a lot of efforts to connect to the students in the class. He was available outside class and would meet us over zoom if he's not on campus. He answered questions well and with patience.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Not answered

EVALUATION: #15 (of 15)

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

For the questions below, please evaluation your own commitment to and effort exerted in the course.

1. How often did you:

- | | |
|--|------------------|
| • Prepare for class | <i>often</i> |
| • Attend class | <i>always</i> |
| • Participate in class | <i>sometimes</i> |
| • Complete assignments | <i>always</i> |
| • Meet with professor outside of class | <i>often</i> |

2. Using specific examples, please briefly describe what you did that was particularly effective for improving your learning in this course:

Constantly rereading the notes have been the most effective for me in this class. Given that all the concepts build on each other, making sure that I understand the material from each class before moving on to the next helped enhance my learning in this course.

The following questions ask you to reflect upon the ways the course and instructor helped you to develop your thinking, skills, and abilities. Please provide specific details to support your reflections.

3. In what ways did this course and instructor stimulate or shape your intellectual interests, thinking, and/or imagination?

I really appreciate how enthusiastic Professor Alvarado is, and he really encouraged us to learn. I think he asked stimulating questions to the class and the way that he made sure to have examples for all the concepts he was teaching along with proving the theorems we learned to show how and why they worked helped me better understand what we were learning.

4. Please describe the most significant skills and/or knowledge that you gained or further developed during this course:

My overall knowledge of linear algebra was improved in this class. I think my proof writing skills also really improved and my skills on how to approach a problem with the tools you have that you may initially be unsure about was also improved.

The following questions ask you to reflect on how the course structure and your instructor's teaching affected your learning in the course. Please provide specific details to support your feedback.

5. Considering the overall design of the course, how did the pace, presentation of information, clarity of expectations, assignments, activities, and/or discussions in the course impact your learning?

I really liked and appreciated that we had access to Prof. Alvarado's notes and that they were exactly what we talked about in class. The overall discussion and assignments were good, but it did move a little fast at times for me.

6. Please describe the nature of your interactions with the instructor in the course, including the instructor's engagement with student questions and ideas in class, their cultivation of an inclusive learning environment, their availability outside of class, and the feedback you received on your coursework.

All of my interactions have been really excellent. Prof. Alvarado was particularly helpful during office hours and was extremely accommodating to his students needs which I'm really grateful for. I was never afraid to ask questions and I always left office hours with a much better understanding of whatever concept / material I was struggling with.

Please use this space to provide any additional comments you have about this course and/or instructor.

8. Additional comments:

Thank you so much for a great semester!