

Individual Report - Fa22-MATH-0063-01-Number Theory - Robert J Lemke-Oliver

Project Title: **Fall 2022 AS&E Course Evaluation**

Courses Audience: **30**

Responses Received: **22**

Response Ratio: **73.33%**

Summary of Results

The Course

Question	Course		Subject (MATH)	
	Mean	Standard Deviation	Mean	Standard Deviation
5. Based on your answers above, and any other factors you consider important, please provide an overall evaluation of the course.	4.67	0.48	4.08	0.95
Overall	4.67	0.48	4.08	-

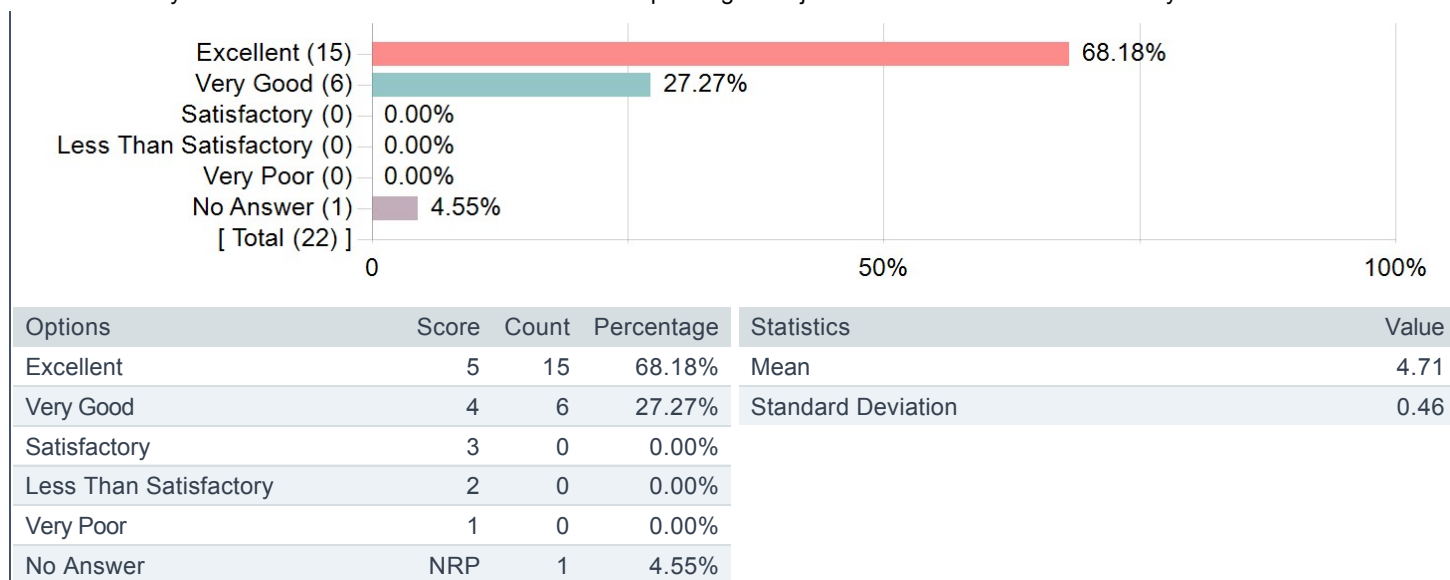
The Instructor

Question	Course		Subject (MATH)	
	Mean	Standard Deviation	Mean	Standard Deviation
15. Based on your answers above, and any other factors you consider important, please provide an overall evaluation of the instructor.	4.81	0.40	4.25	0.94
Overall	4.81	0.40	4.25	-

Detailed Results of Course Evaluation

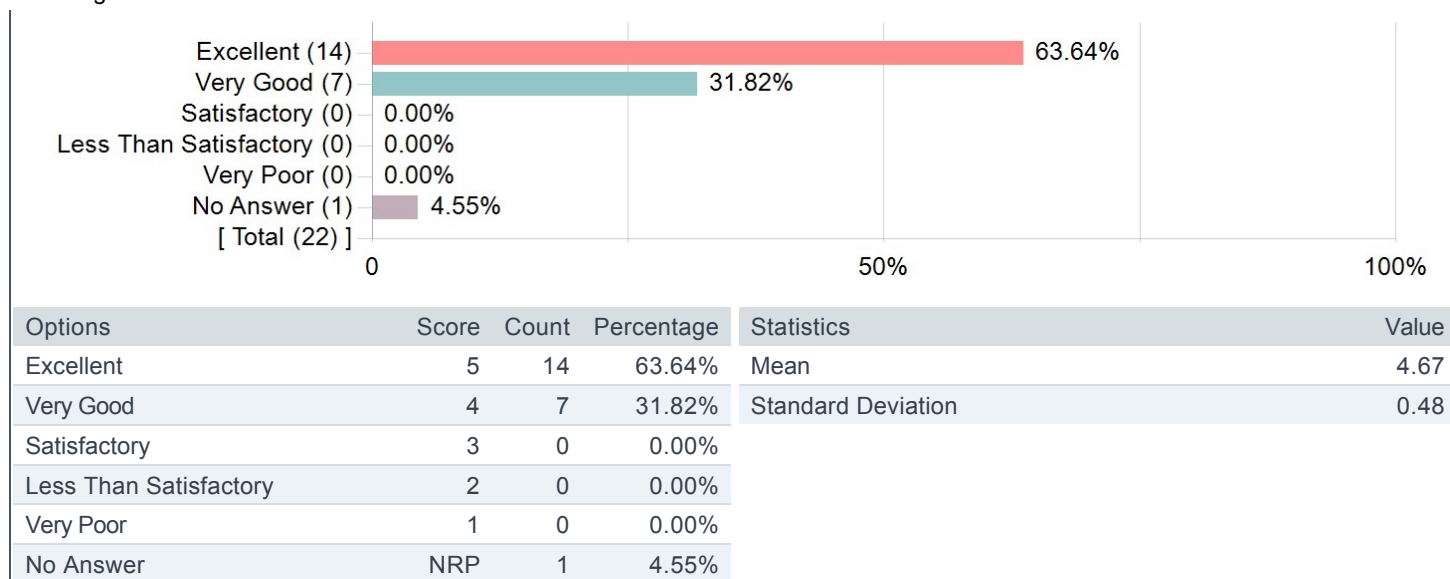
1. How would you rate the success of the course in accomplishing its objectives as stated on the course syllabus?

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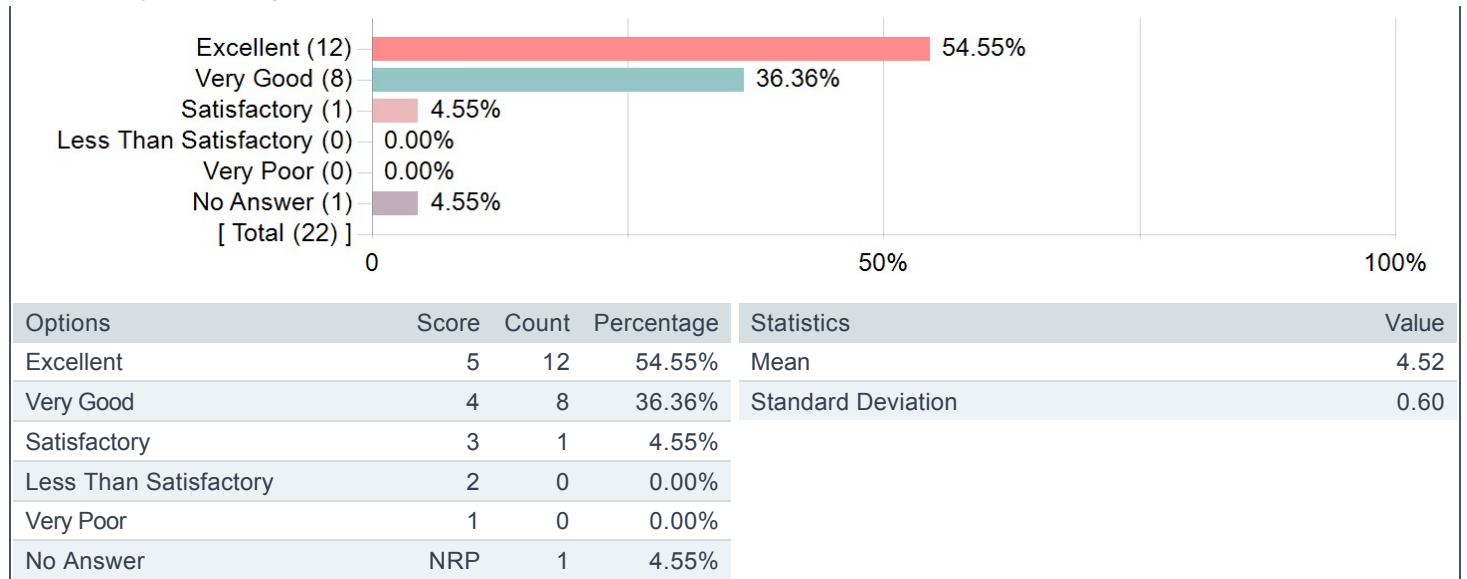
2. How would you rate the use of class time (lectures, discussions, demonstrations, labs, studio work, etc.) to promote your learning?

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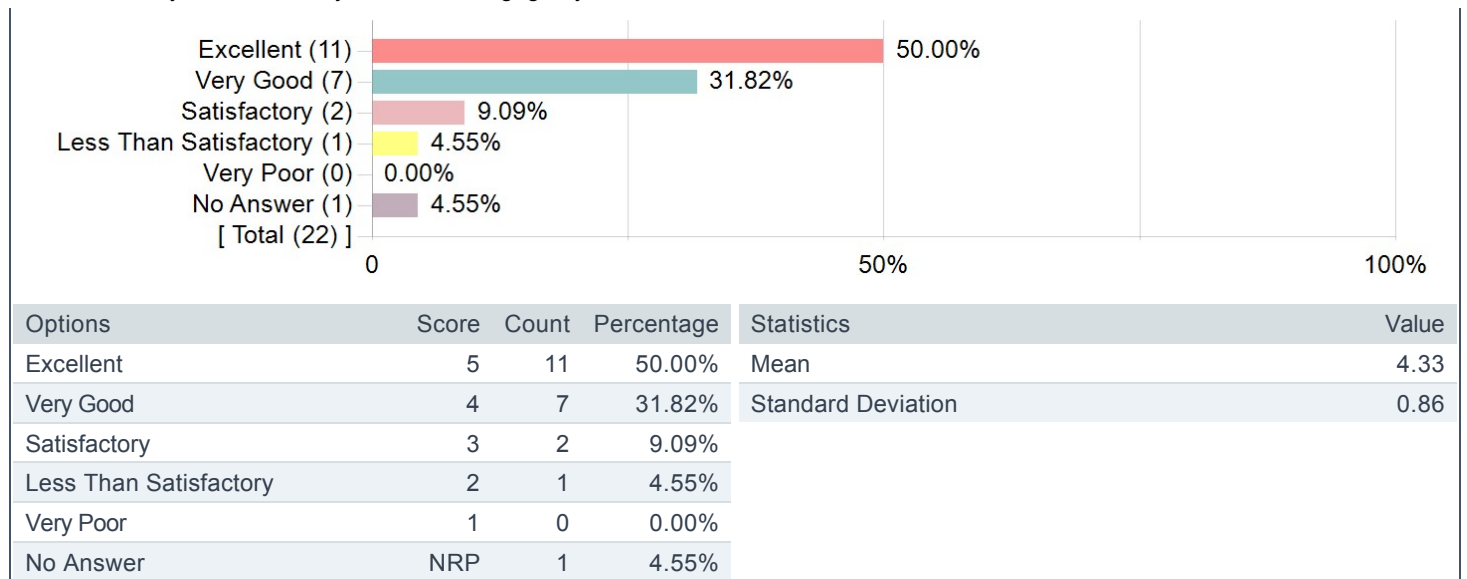
3. How would you rate the use of out-of-class activities (reading assignments, homework, papers, projects, studio art practice, etc.) to promote your learning?

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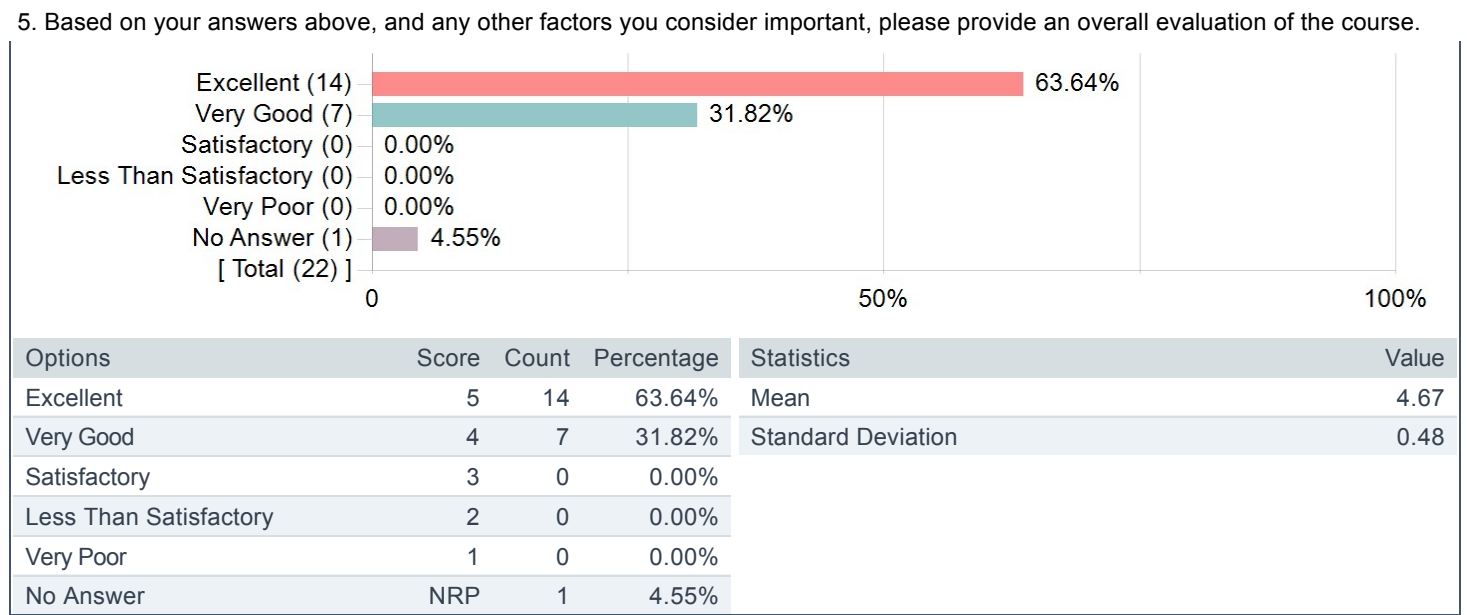


4. How would you rate the way the course engaged your interest?

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5. Based on your answers above, and any other factors you consider important, please provide an overall evaluation of the course.



6. In what ways has this course made you think differently or more deeply? Please provide examples.

Comments
I would say using the cryptography unit to hone in on the other units of the course might be helpful, since we s[pend a lot of time on cryptography
learned a lot about prime numbers which is cool, everything interconnected
I pick up on patterns that I never saw before. Looking at the integers from a modular perspective feels incredibly powerful and rewarding. I feel like I am a better problem solver after taking this course
This class is one of the best classes I've ever taken. It really made me think differently about numbers and their properties. It was such a cool class for thinking about interesting relationships between different numbers. I also feel like I learned so much about patterns within numbers and how they can originate. We proved so many interesting theorems — everything about this course made me think differently or more deeply :(
Made me think more about prime numbers and how crypto works
This course has emphasized the importance of structuring a proof in a logic and easily digestible manner.
Number theory in general has shed light to a lot of properties that fundamental numbers have in the world of mathematics.
i love robert he is an amazing professor
good introduction to number theory
Excellent lectures, very engaging exams and homework assignments
This course is extremely fascinating and taught very clearly and engagingly.
The proofs felt much more intuitive than in other math classes I have taken and they certainly made me think more deeply about the topics we were learning.

7. What aspects of this course worked best to facilitate your learning?

Comments
Definitely the homework
lectures
working on proofs in class and slowing down to provide concrete examples of what we are about to prove. Because of this, I rarely felt lost in class
The lectures were really the main place for learning. I mean, the homeworks were well-written and everything for sure. I feel like no one wanted to tell the prof this while we were still in class, but the homeworks were REALLY easy. I could normally knock them out in a couple hours. For context, homework for my other math classes takes like 5–8 hours.
The testing format was the most helpful thing for learning. Having the computations in class and the proofs as take home is really a stroke of genius. I could just tell that prof L–O had thought a lot about what would be the best way to really test people's knowledge. That was really the best part of the class: everything was just really thought through.
The homeworks, lectures, office hours
The lectures are excellent, well motivated and engaging.
The problem sets and class–time discussions have been the most helpful.
Having the exam proofs be take home was amazing because it helped me actually focus on the proofs, not on panicking about spitting out a proof.
The lectures very much helped me to prepare for homework and tests. Also, the office hours were particularly helpful for me when I had specific questions.
Lectures and homeworks
The instructor was great!
I am a big fan of the exams in this class. In other proof based classes, the most daunting thing about the exams is the amount of theorems that you have to know. Having the proofs be take home relieves a lot of stress and allows me to allocate more time on actually understanding the material, rather than memorizing as much as possible. I also liked the in class portion of the exams. The true/false questions felt tough on the first exam, but once I knew what to expect on the next exam, I was forced to study in a way that helped me learn the content better.
The homework assignments were more appropriately based off of the lectures than in almost any other class I have taken. That is not to say that they were necessarily easy, but I felt fully equipped to tackle any challenges I faced just by using the knowledge provided to me in class.

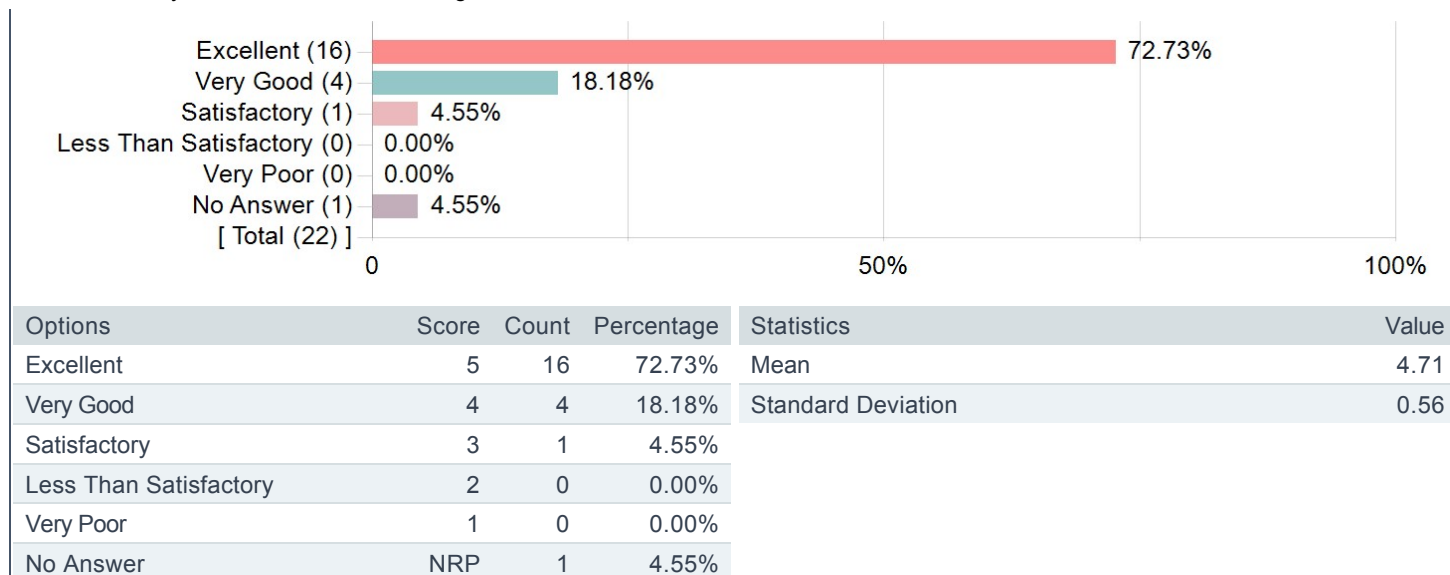
8. What suggestions do you have for improving this course?

Comments
It would be nice if homework and exam solutions were posted
It was a great course overall, but I think the homework could have been graded slightly easier
nothing
longer homeworks. More assignments would allow a better understanding of the course. Early in the semester we had homework with about 4–5 problems. This was very nice. It took around 2 hours and I felt like I better understood the material after it. This went away later in the semester with highly computational or exceedingly short homework that did not effectively promote my learning.
I know prof L–O was super busy this semester, but more consistent homework is really the only thing I can think of. Not that I didn't like the crypto unit — but if there's no homework, all of us are putting that class on the back burner. Even though it's super interesting.
Also, he let people talk over him sometimes. That's gotta be really annoying for him, and it was pretty annoying for the rest of the class too. I wish he had asked them to be quiet. But not that deep, of course.
Get a better classroom (one that can fill all the students)
I wish that feedback on our homework was a bit more timely.
None
I have no complaints with how this class was taught.

Detailed Results of Instructor Evaluation

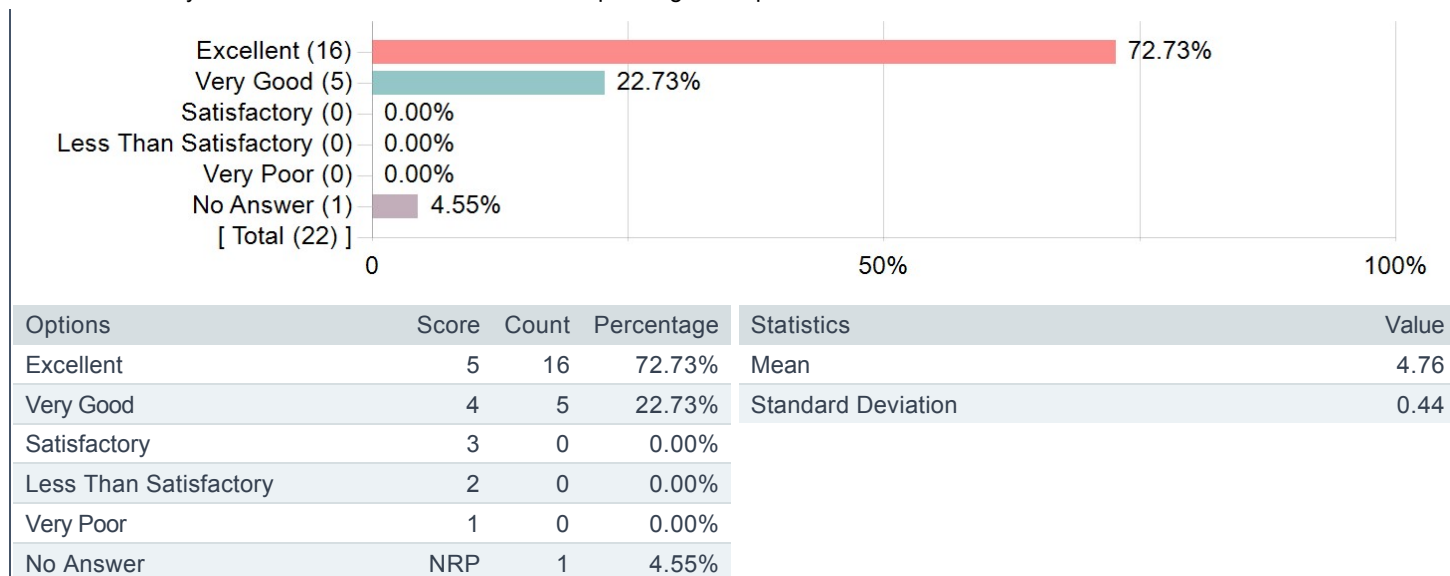
9. How would you rate the instructor's organization of each class?

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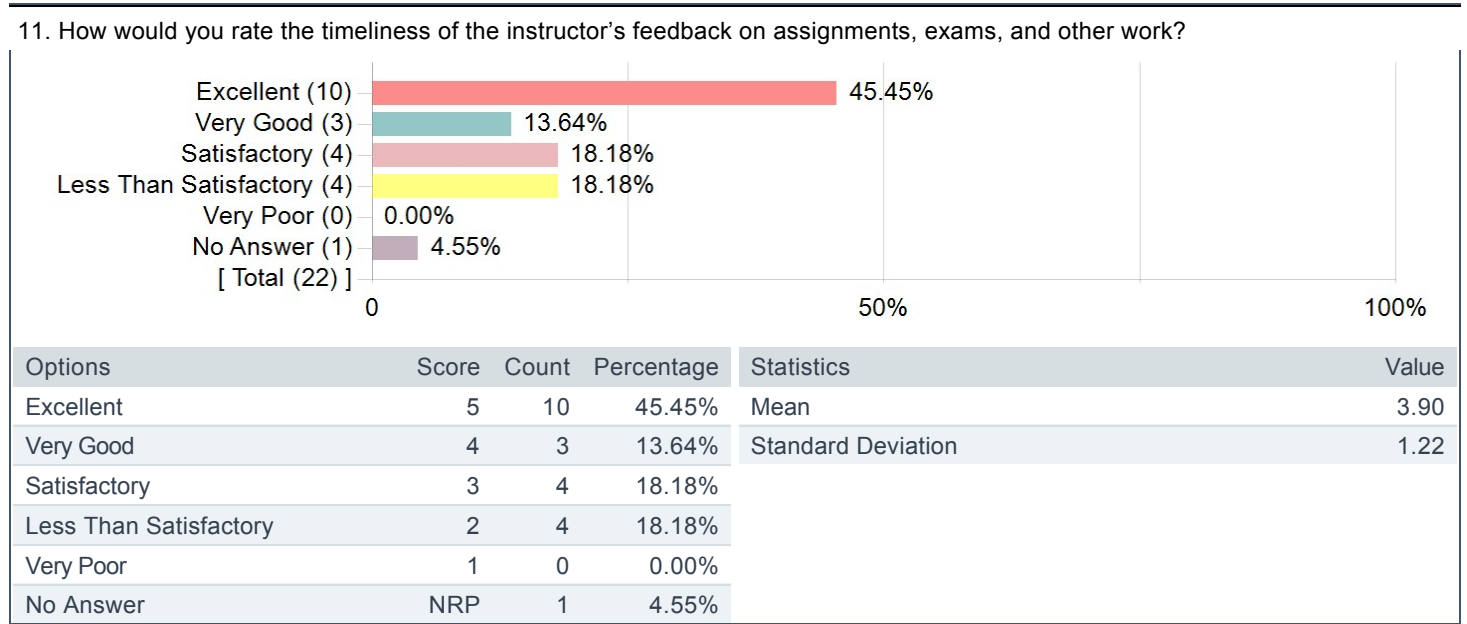


10. How would you rate the instructor's success in explaining concepts and ideas?

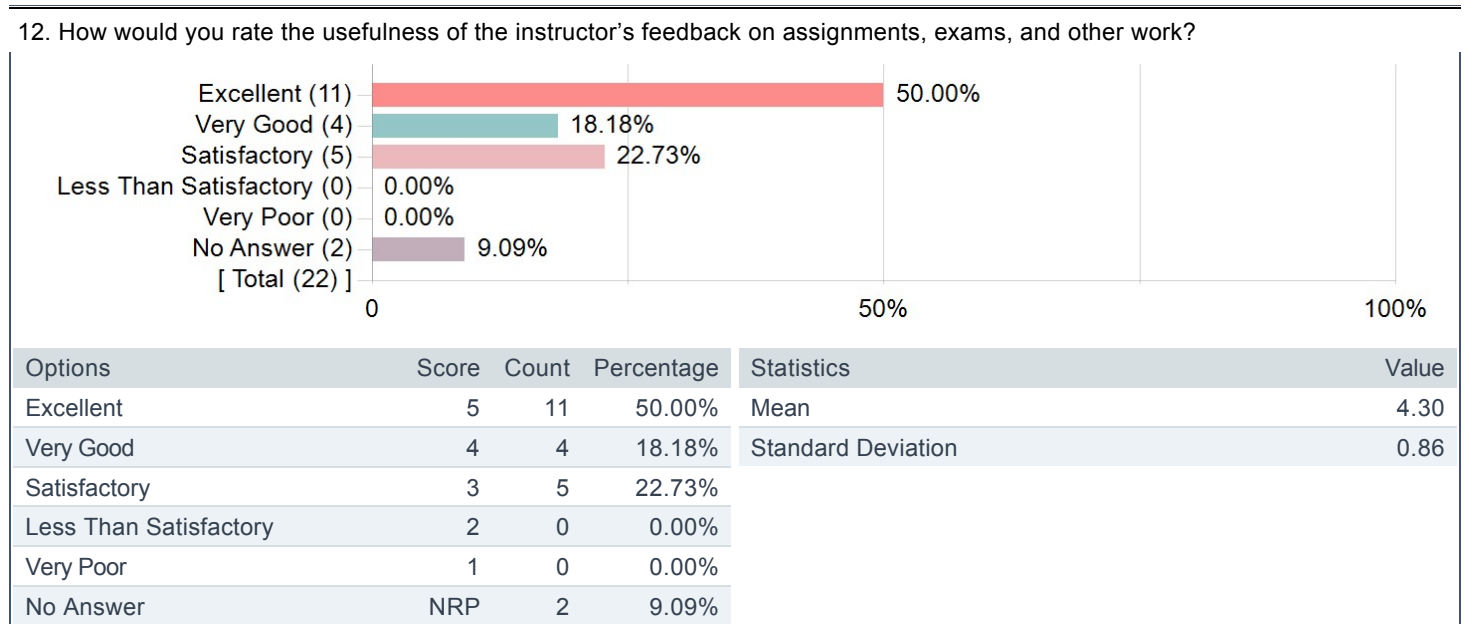
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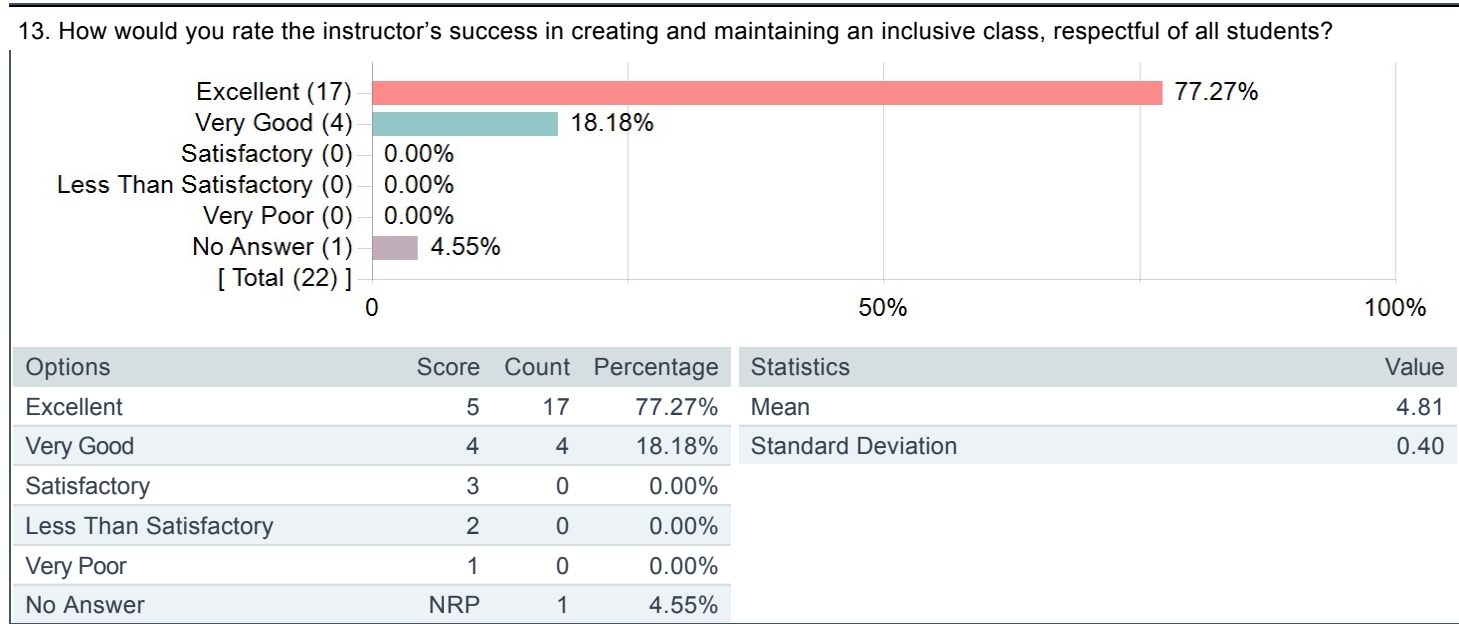
11. How would you rate the timeliness of the instructor’s feedback on assignments, exams, and other work?



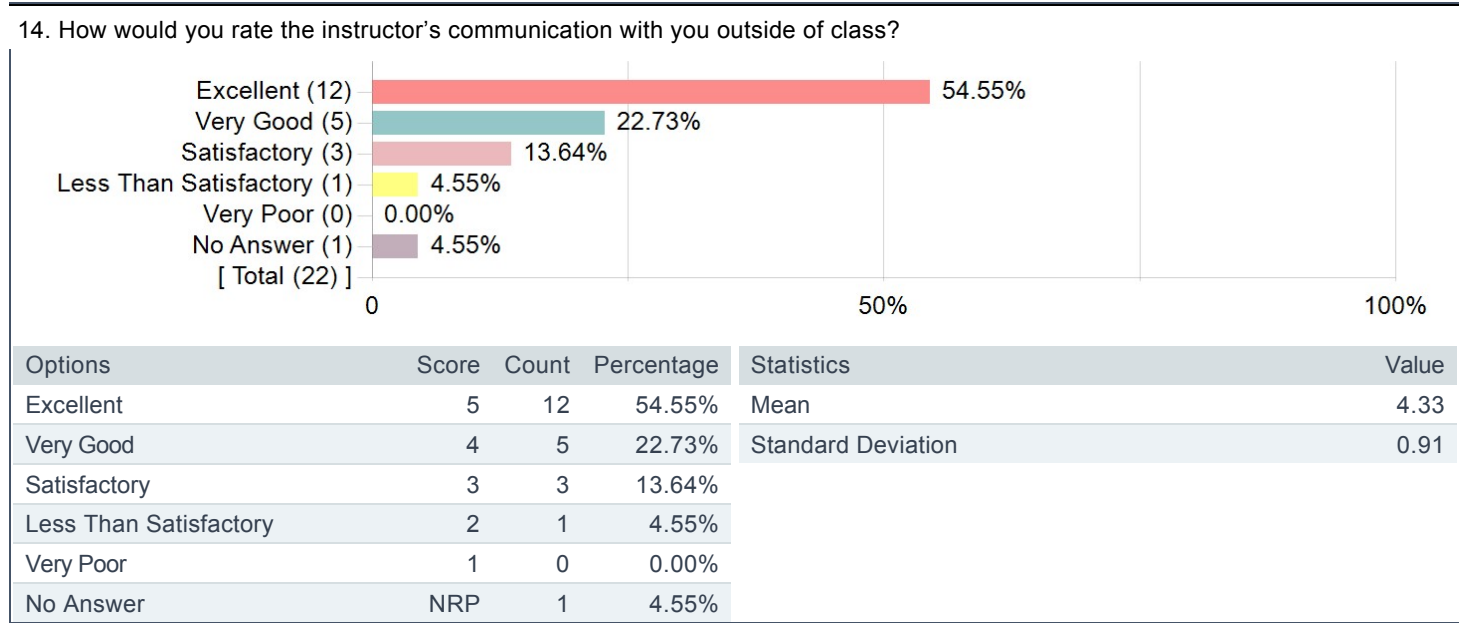
12. How would you rate the usefulness of the instructor’s feedback on assignments, exams, and other work?



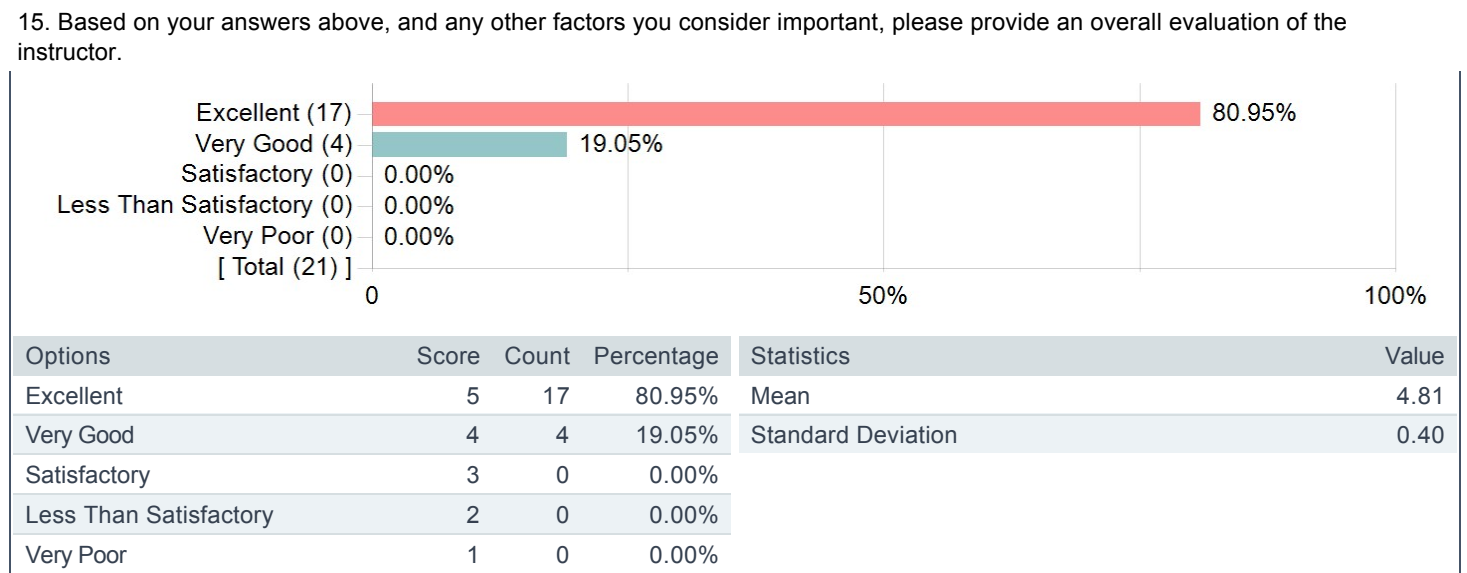
13. How would you rate the instructor's success in creating and maintaining an inclusive class, respectful of all students?



14. How would you rate the instructor's communication with you outside of class?



15. Based on your answers above, and any other factors you consider important, please provide an overall evaluation of the instructor.



16. Please provide any additional comments regarding the instructor.

Comments
Prof. Lemke–Oliver was great!
i love robert hes my favorite tufts professor
He's so funny :) A really great guy, caring and entertaining instructor. Really well thought out classes, he's just really talented at explaining number theory. You can tell he's doing exactly what he was meant to do. Can't say enough good things, seriously.
Tell more of your jokes! They're funny :)
Professor Lemke–Oliver is one of the best professors I've had at Tufts, very helpful answering questions in class, office hours, and by email
Lemke–Oliver is a wonderful teacher. He clearly cares deeply about his students, about pedagogical technique and about math.
Robert is an excellent teacher and a very understanding person; he wants everyone to succeed and works hard to make sure we are well–prepared.
Robert was an excellent and fair teacher. I really enjoyed being in his class and learned a lot. I took a leap of faith in taking Number Theory and felt rewarded by being a member of Robert's class. I would recommend Robert and Number Theory to anyone interested in taking a math class at Tufts.
Professor Lemke–Oliver definitely is invested in making sure his students are ok and happy and well–rounded people. I really appreciate that as I feel like some teachers forget how important it is for students to just see that their professors care about them and not just their work.
Fantastic math professor, one of the best in the math department
Robert was quite possibly the best professor I've had at Tufts. His lectures were easy to follow and he made sure to carefully explain everything to ensure that we were all on the same page. It was extremely easy to reach him outside of class and when I have struggled with problem sets, he was always able to expertly lead me on the right path without simply telling me the answer. Robert was extremely accessible, welcoming, committed, and kind and I hope to have him again in the future.

17. How would you rate the space in which instruction occurred (classrooms, laboratories, etc.)?

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