

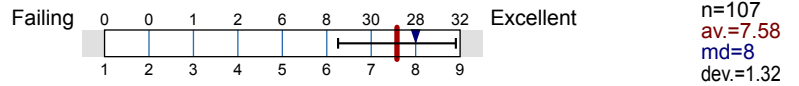


R. KOZHAN
Evaluation of Instruction Program Report
 12F: MATH 32A LEC 2: CALC OF SEVRL VAR
 No. of responses = 107
 Enrollment = 213
 Response Rate = 50.23%

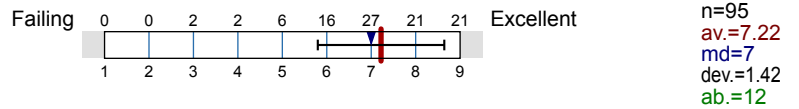
Survey Results

UCLA Department of Mathematics:

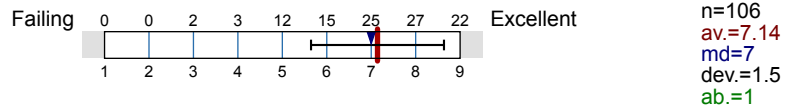
How would you rate your instructor as an effective teacher?



How would you rate the availability and helpfulness of your instructor outside of the classroom?



What is your rating of this course independent of the effectiveness of the instructor?



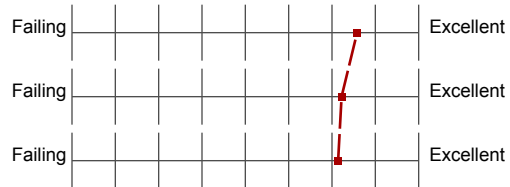
Profile

Subunit: MATH
 Name of the instructor: R. KOZHAN
 Name of the course:
 (Name of the survey) 12F: MATH 32A LEC 2: CALC OF SEVRL VAR

Values used in the profile line: Mean

UCLA Department of Mathematics:

How would you rate your instructor as an effective teacher?



n=107 av.=7.58 md=8.00 dev.=1.32

How would you rate the availability and helpfulness of your instructor outside of the classroom?



n=95 av.=7.22 md=7.00 dev.=1.42

What is your rating of this course independent of the effectiveness of the instructor?



n=106 av.=7.14 md=7.00 dev.=1.50

Comments Report

Comments:

Please use the space provided for any comments you wish to make which are pertinent to the educational process. These may include all aspects of the course: teaching, examinations, grading, textbook, etc.

- Excellent math teacher. Good interpretation of math formulas make them much easier to memorize. His lectures are very clear and thoughtful. In a word, he makes math easy and interesting.
- -Professor has really been clear in explaining the math concepts and is always patient and ready to help students during extra-curricular hours.
-The team is really efficient in grading homework and mid terms and there is little time lag
-Can provide more practices for students
- Examinations were very difficult compared to the other quarters because we were told that they were based on the ratio of the large amount of international students and freshmen who had skipped out of 31A and 31B, compared to the normal students who had not had the prior education that the others did, which is very unfair.
- Exams should have more time!
- Excellent 3-D graphs. Very thorough. Adequate amount of practice. Could use a few more examples in lecture.
- Extremely bright professor. Exams certainly aren't easy.
- Great professor but the class size is so large that it's hard to get a hold of him at times.
- Great teacher.
Manages to keep me engaged.
Gives a bit too much homework, I guess that is good.
- He is an excellent teacher, but his test may be some kind difficult. But he teaches really well!!
- Help is decently available and the class material progresses at a leveled pace. The instructor addresses everything he plans to put on the exams and constructs challenging but fair midterms. Honestly, I felt that this course with this particular instructor was the most straight-forward and reasonably challenging class of my study list this fall.
- Homework is much more difficult when it is spread out over multiple sections at a time. Hard to follow order of lectures in respect to the book sections because there was so much jumping around.
- I came into the class as a first year, not having taken any physics in high school. I didn't even know what a vector was, but the class is really doable and it's difficulty may be high by comparing the midterms to the homework, but if you do the homework you'll understand the material. However, I wish in the time leading up to each exam he would somewhat review beforehand or give homework exercises that are almost as difficult as the problems on the midterm and hopefully the final. I still feel like I could have done better, maybe if we had quizzes in section, I would grasp the material much better.
- I can sometimes find some of the work shown in class difficult to follow, but I feel the textbook does (for the most part) a good job.
- I don't have anything to add. This professor is excellent!
- I feel like classes were too short for the professor to fully explain the concepts presented in lecture. We

did not have enough time to go through more complicated examples and everything seemed rushed. I had class whenever the professor had office hours, so it was difficult for me to get to know him and ask questions if I needed to do so.

- I like the way he lectures- Generic write down notes on board and you copy them. However, sometimes his notes are very generic/ambiguous. He draws an example of a quadric surface one way, but fails to mention and/or draw the other forms as well. He is sometimes humorous... BOO math department grading style... what is it like top 25% get A's or something. Feels sorry for those barely at the cutoff who normally get As
- I love this course, Professor Kozhan is very effective as he provides guidelines for us to review for the exams. Moreover, personally I think it is great to submit homework every week instead of quiz as it is more effective for us to review the book and the lectures.
- I loved that there was a video podcast online. It was also very easy to follow the professor's work during lectures, granted you sat on the right side or the center seats of the room. All in all, the professor made it very easy to get an A in his class.
- I think Professor Kozhan is an excellent professor. His lectures are very efficient and he is very clear about his expectations of the students. This being said, even he knows he doesn't have enough time to work through more complicated examples. I don't know if it would be possible, but I think one additional lecture or discussion would be very helpful. There's a lot of material to cover in 10 weeks, and more time would be great.
- I thought the professor did a great job of covering all the topics as well as explaining the material coherently and clearly. Grading was fair. Examinations were at the right difficulty for the class.
- I wish the professor went over more examples in class. Use the time spent on proofs to show examples instead. I don't learn anything from doing the proofs and it doesn't help me understand the material better either. I only really understand how to do problems because of discussion. It's very hard to figure out how to apply the definitions and proofs and theorems to the actual problems.

I like that the professor is to the point about what will be on the exams and there are no surprises or trick questions.

- If the professor has not enough time to give harder examples, then he should at least be mindful and give a sheet with complex examples that would help on doing the homework.
- It would have been better if he told me ahead of time what he will be teaching week by week so I can read the book before I go to class. I wish he could have more office hours too.
- Kozhan clearly taught the material well and thoroughly. Felt like I learned a lot.
- Kozhan is a great teacher for Math32A. He is an effective teacher and his lectures are easy to follow. The class isn't boring and there is not an overload of homework. His midterms are manageable and he provides all the help or assistance that you'll need. I thoroughly enjoyed his class and would definitely recommend anyone to take it.
- Kozhan is a very good lecturer. He paces concepts well without spending too much or too little time on each topic. He explains concepts clearly and frequently asks for questions.
- Kozhan is an effective professor and is particularly talented with teaching the concepts of multivariable with his illustrations and visualizations. His examples are easy to follow and cover a lot of the homework and exam problems. The homework is a heavy workload, but personally I think it's still reasonable.
- More advanced examples of concepts in lecture would be helpful.
- More time for exams would help greatly.

- Never went to office hours for Kozhan, but he is fair, always stops to and asks if anybody has any questions, and incredibly knowledgeable.
- Occasionally I'd like for Professor Kozhan to do a bit more in terms of making his lectures more engaging (eg changing vocal inflection, telling jokes) because when he does tell the rare joke, his lectures become a lot more engaging as a consequence.

The textbook seems somewhat less than optimal for the course; Professor Kozhan would often disagree or criticize some of the book's concepts.

- One of the things I liked most about this course was that Professor Kozhan was very fair about his grading system. It was explained very clearly and designed well to give the students the opportunity to succeed.
- Professor Kozhan explains really well and his lectures are effective. It would be great that he has more office hours later.
- Professor Kozhan is a very clear instructor. His exams are fair and he is very helpful during office hours.
- Professor Kozhan is fairly thorough in his lectures of all the topics of this course. He uses good examples and I appreciate that he follows the textbook. His grading is fair. I especially like that he has two ways of calculating grades and that he will select the higher one. I also like that he drops our two lowest homework scores.
- Professor Kozhan is very good professor who makes difficult material easier to understand. Based on what other people say about their professors for the same course, Professor Kozhan seems to be a much better teacher at helping people to comprehend the material.
- Professor Kozhan teaches so clearly!
- Professor Kozhan's voice is beautiful!

Okay, back on topic now.

Professor Kozhan has a unique way of teaching a math course. Unlike a traditional math course that requires plugging and chugging random equations, he also tests us on definitions. Knowing how to use an equation is one thing but fully understanding a concept is another. With fewer and fewer teachers placing emphasis on the latter, I can confidently say that Professor Kozhan wants us to learn not only the "how" but also the "why."

Homework in this class is an aggravating process if one doesn't understand the concepts. I appreciate the time that Professor Kozhan puts into finding the harder questions and even making up his own to make us think even further. However, I would love to see an easier problem here or there to not discourage me from homework. Homework is also graded in this class; whenever I received a low mark on homework, I felt discouraged and put in less effort into the course.

Regardless of the class' difficulty, Professor Kozhan is readily available during office hours. In office hours, he helps clarify and dispel our confusion with every topic and reinforces the correct methods to solving math problems. Although time may not have allowed for it, I wish to see harder examples being given during lecture since the homework questions are many notches more difficult than the examples during lecture. Again, however, he is always available at office hours so there is no real excuse for confusion except laziness.

Multivariable Calculus is meant to be a difficult course, and I am happy that the course has been challenging. I might not receive a decent grade or pass, but I admit that I have gone to Professor Kozhan for help, and he is extremely helpful. I have also spent countless hours studying every week, and the causes of my low scores are my careless mistakes on each exam. The TAs grade the exams

too harsh as I've once forgotten a negative sign and lost half the problem (10% total score). Other than that, Professor Kozhan is an excellent professor.

Thank you!

- Professor is thorough in explaining formulas with proofs. Class material is brought forth at a nice rate and little time is wasted since lecture is always prepared. The homework contains a fair amount of insight building questions, but I think that there could be more multi-step problems that are more sophisticated just for the practice of applying several concepts at once. I think that more complex examples could be gone over in class, as long as they are still brief (there is no need to bring out a long example and working it all out. The good examples are the ones that are short yet not obvious, the ones that illustrate contradictions to theorems and are tricky). Exams should also be less of a repetition from the homework. Showing when theorems fail are also pretty cool.
Overall the class is pretty solid; the material is interesting and the professor is extremely knowledgeable about the subject. I wish that not all the material came from the book, however. There could be the potential in exploring interesting topics in more depth than the textbook if possible.
- REALLY A VERY NICE PROFESSOR!
- Strengths:
Lectures were useful and followed the book well
Homework was also effective in honing in on the important topics
Professor was very clear and helpful during lecture
Grading method and curve seems fair
- Weaknesses:
Tests relied too much on memorizing facts and formulas that were unnecessary
Time to finish the tests was far too short. I would always figure out the problems as soon as I walked out of the testing area.
TA's were too stingy when it came to grading
Lastly the book sometimes fell short on explaining all aspects of the concepts covered
- The class is fair in respect to examination, it just requires further development of ideas on your own time, as the general ideas are covered in class
- The course itself wasn't too great but that had nothing to do with the professor. Kozhan is a great teacher. His teaching style is very effective and his amazingly accurate 3d drawing and appropriate examples and proofs make it easy to understand his lectures. The class does move pretty quickly but luckily everything was podcasted so it's easy to catch up on things that may have been missed during lecture.
- The grading of this class is great and the textbook helps clarify the material very well. In addition, the tests are fair given what is taught and expected in class. Overall, this has been a great class.
- The homework has a lot of questions for students to answer, which is always helpful for the exam. Nonetheless, the midterms are hard even if we had a lot of practice for it. I find his lectures to be very organized. If there were more examples in his lectures, I think they would be the best.
- The lectures were good, however sometimes, the professor went too fast and it was hard to comprehend the material. The professor did ask if there were any questions, but asking if there were any questions immediately after teaching the material didn't allow any time for the students to comprehend the material and then ask what they did not understand. Overall, I liked that the professor was pretty effective and readily available to help if you ever had a question.
- The only thing I am concerned about is that he does not follow the sequence of the book when he teaches. Perhaps he has his own understanding of the materials, but it makes harder for me to review.

- The primary difficulty I had with the class was the fact that lectures didn't seem to be that structured. It was not always clear when we would be moving on from one big topic to the next, and the same went for moving from one smaller concept to the next. Aside from his teaching ability, Kozhan is obviously an ingenious mathematician. There were just many times where it seemed very apparent that he struggled to explain what was in his head to his students.
- The teacher was good, but he kind of muttered to himself sometimes. He's very caring and I can really tell he wants his students to learn. I really appreciated that.
- The teaching was often unclear and hard to understand. This led to poor application of the material during exams and homework.
The textbook did not help as much either.
- The textbook isn't that good at explaining things. I do not understand why in the past year the textbook for this course has changed twice.
- The two methods of grading is really helpful. He seems intimidating at first and it really makes me uncomfortable to ask questions in class because of this. However, his lectures are always really organized and with a purpose. Sometimes he mumbles or speaks really quickly so his words blend together and this makes it difficult to comprehend what he's explaining. The textbook is really nice and I really enjoyed reading and going over it. The sections were really nicely outlined.

It was also really helpful that he posted past midterms and a list of what we needed to know for each midterm.

- This course was amazing. I am very glad to have had professor Kozhan in my first quarter at UCLA. I felt like his lectures were all very clear and presented the underlying explanations behind each principle or technique. He was always willing to answer questions, both in lecture and outside of class and was very nice as a professor. I felt like the grading, while strict, was also very fair. It was good that he prepared us for the midterms by having weekly homework assignments and providing practice midterms with solutions, as well as a study guide listing the things we needed to know. His tests, while occasionally tricky, were quite fair because he had definitely explained everything that was on the test in class. Overall, I feel that professor was a very amazing professor and anyone who is willing to put in the work should do well in his class.
- This professor is GREAT.
- VERY GOOD IN TEACHING BUT EXTREMELY HARD
- Very funny and good professor! Would recommend to take (:
- good teacher.
- great professor, engaging lectures, very helpful. nevertheless, a difficult class.
- it would be better if the professor explains the theories and definitions more thoroughly and from more aspects