UCLA | EIP

M.J. ANDREWS
Evaluation of Instruction Program Report

16S: MATH 31B LEC 1: INTEGRTN&INF SERIES
No. of responses = 122
Enrollment = 212
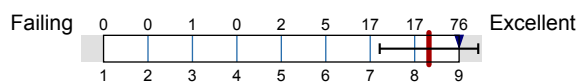Response Rate = 57.55%

Survey Results

---

1. UCLA Department of Mathematics:

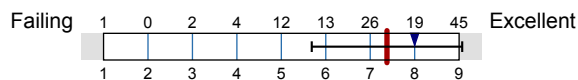**1.1)** How would you rate your instructor as an effective teacher?

Failing | 0 | 0 | 2 | 2 | 3 | 1 | 25 | 15 | 74 | Excellent
1 2 3 4 5 6 7 8 9

n=122
av.=8.16
md=9
dev.=1.31

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

Failing | 0 | 0 | 1 | 0 | 2 | 5 | 17 | 17 | 76 | Excellent
1 2 3 4 5 6 7 8 9

n=118
av.=8.32
md=9
dev.=1.11
ab.=5

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

Failing | 1 | 0 | 2 | 4 | 12 | 13 | 26 | 19 | 45 | Excellent
1 2 3 4 5 6 7 8 9
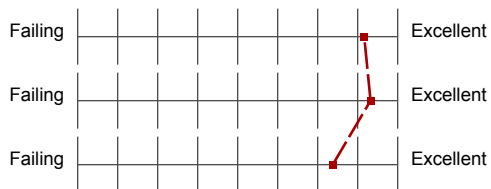
n=122
av.=7.38
md=8
dev.=1.69

Profile

Subunit: MATH

Name of the instructor: M.J. ANDREWS

Name of the course: 16S: MATH 31B LEC 1: INTEGRTN&INF SERIES
(Name of the survey)

Values used in the profile line: Mean

1. UCLA Department of Mathematics:

1.1) How would you rate your instructor as an effective teacher?

Failing — Excellent   n=122   av.=8.16

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

Failing — Excellent   n=118   av.=8.32

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

Failing — Excellent   n=122   av.=7.38

Comments Report

2. Comments:

2.1) 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.

- Best math professor! very friendly and he made the classes interesting.

- Although 31B was not as smooth-flowing as 31A was, Andrews made the process of learning a lot better. Andrews' teaching style is very helpful because he puts confusing math terminology into every day language. I also always felt welcome to come to office hours. Best professor I've had so far at UCLA!!!!

- Amazing class and professor, I wish he though my 31A class. I learned so much because of professor Andrews, please never up teaching, you truly have a gift towards making the students understand the subject! It was my pleasure to be your student.

- Andrews is a great professor.

- Andrews is a really good professor who makes difficult concepts really clear, he has a very positive attitude too which makes the mood of the class positive as well!
  If there was one possible way we could improve the class, then it would be good to have the lectures saved as presentation slides rather than as notes on the chalkboard.

- Andrews is a really good professor, he does good in simplifying the material, which is difficult especially with this class. He is also really helpful in office hours and is always available to students. He really does deserve to be teaching here.

- Andrews is a very engaging teacher. It is very easy to pay attention to him and what he is teaching because he doesn't lecture so much as he preforms. His examples are well rehearsed and are accompanied with a subtle form of showmanship that keeps students engaged. I very much enjoyed learning from him.

- Andrews is a wonderful professor. His enthusiasm and helpfulness is the only reason I feel I can pass the course. Otherwise, I felt that they was too much material to comprehensively learn in ten weeks. I am an Econ major, so I often questioned how much of the material I would use in my major.

- Andrews is the best math professor I have had yet. He makes class fun and understandable. I did a lot better than I expected I would in this class, and I know that's because of him.

- Andrews is very knowledgeable and concerned. He is fair and very approachable and helpful during office hours.

- Andrews tries to present material clearly in lecture. However, sometimes he tends to present examples and just complete them without really allowing students to understand how they are done. It would be more effective if he states the methods explicitly before he does examples and also while he is doing the examples, and explains what is happening at each step, as sometimes there are other concepts and tricks that we need to know that he does without really explaining. These other tricks may be clear to him, but sometimes are not very clear to the students as we are not as well acquainted with the topics as he is and need these methods to be stated explicitly. Sometimes when they are not, students get distracted by not understanding one step of a problem and then are lost for the rest of it. Students seem to have to do a lot of understanding outside of class on their own. Andrews is caring and seems to be interested in student learning, but slightly less so than the previous quarter. However, this may be due to the different topics taught in each class.

- As a new teacher, Professor Andrews did his best to help his students understand mathematical concepts. He was also available during office hours.

- Awesome

- Examinations were accurate representation of what students should be learning throughout the course. Grading was fair. Office hours were helpful.Lectures were excellent. Professor would take the time to meet whenever was convenient for students. Overall, difficult course, but manageable with the professor's teaching style.

- Friendly professor that takes time to give practice exams and review material

- Great Professor! Just wish the class wasn't at 8 am.

- Great dude, and very energetic teacher. The material however should be condensed down or certain sections eliminated so that the concepts can be better flushed out.

- Great professor, great teaching style.

- Hardest math I've had to do, but Andrews is an awesome professor.

- He cares a lot about student and tries to explain things well in lecture.

- He is a fair and excellent professor. He explains the concepts very well in class. It was a pleasure taking Math 31B with him.

- He is a very good instructor, knowledgeable, with confidence in what he teaches. He is easygoing and cares about the students. Fair tester. An exemplary professor!

- He is a very good teacher. He is very knowledgable of the material and actively has the class engaged.

- He is a very understanding teacher who is able to keep his students awake with jokes. His teaching style is very eloquent and straightforward.

- He is hands down the best math professor I have had so far at UCLA. The lecture was at 8 am which normally would make it hard to pay attention but while staying on task and explaining things well he was very engaging and i felt like he was able to connect with us. He never made himself seem like he was above us but that he was our peer while still maintaining the respect of a professional. He was absolutely wonderful. I took this course for a couple weeks in winter quarter before i dropped it and decided to take it this quarter and the difference between my two experiences were night and day. Exams were extremely fair. He prepared us well but did not hand us the answers either. You had to know the material to do well, but there was never anything on the exam that he did not teach or would absolutely throw you for a loop. This was probably my favorite class so far at UCLA.

- He makes it very easy to understand. He really emphasizes what you're suppose to be learning. I think he is one of the greatest professors I've had. I'm lucky to have taken him twice. He deserves a raise! I don't think a lot of us would have understood these concepts as well under a different professor.

- He was a great professor. He tried really hard to help us understand the material and was very kind. He was also very entertaining which made the class a lot funner, he is very passionate and you can see it in the way he teaches.

- I enjoyed him in Math 31A, but for Math 31B he was kind of a fail. I feel like he didn't teach the material as well as he taught the first part of the course.

- I have been waiting to do this Eval! Professor Andrews is literally the best and my favorite professor at UCLA. I'm sad I won't need him as a professor anymore since this is my last math class. Andrews really puts the time and effort to make sure his students understand the material. His office hours are the best where he goes over the material even further. His humor is great too. I'm guessing his grading will be similar as last quarter, which was very effective. I like how he scaled the midterm and takes into

consideration the mastery of our material and rewards us for it. I put in a ridiculously crazy amount of work into Math last quarter, went to every single office hour, and although my second midterm wasn't the best I ended up with the grade I knew I deserved with the amount of hard work I put into the class. This alone just shows how much Andrews really takes his students and their hard work into consideration.

Honestly though, the more classes Andrews teaches and the more students that have him, I hope he wins a My Last Lecture Award. Such a great professor. Really cares about his students. I honestly can't express what a great professor he is. Keep it up! Also very funny.

One note though--this quarter the office hours he started going a lot more in depth like a lot more in depth to the point where I got more confused than if he were to just go over a sample problem. I don't really know how to go about fixing my confusion though lol. For example I quickly understand material in my TA's (Wertheim) office hours when he picks say 10 problems from the book and shows how to solve them. In Andrews office hours it kind of went on and on on a single problem to where my mind would drift and I'm like, okay so... what's the answer?? So I guess what I'm saying is too much time was spent on a single problem and I think students started to get confused because it seems like the problem takes way longer and is more complicated than it actually is when in reality if someone was solving it it would take maybe a few minutes. The office hours felt somewhat different and less effective for me than for 31A.

Overall though, this professor should receive an award. AMAZING job on his first year teaching at UCLA. Really impomparable to any professor I've had and he will be hard to live up to. Also I want to say that I got very little sleep this quarter and fell asleep during almost all of my classes EXCEPT for Andrews. One time I was debating getting coffee before office hours and then decided not to because I was like, "Nah, it's Andrews. I'm not gonna fall asleep."

10/10 Prof. GG. Great British accent.

- I have had Andrews for the past two quarters and I really like his teaching methods. I feel that he does care for his students and tries to make it to where we all understand what the concepts are, even if we don't always do well on the exams. I like that he always had reviews for his exams and tells us what to prepare and study for it. I also feel that his grading is fair and he tries to give everyone the most points possible. I did hate that this class was scheduled at 8 AM, so I would physically be in lecture but I would still be half asleep and sometimes wouldn't understand the concepts. Usually I went to office hours every week because I felt that I learned more there and understood how to apply concepts in a smaller setting. If I had to take another math class it would definitely be with professor Andrews.

- I have taken both the 31A and 31B with Professor Andrew. Compared to 31A, 31B has been a very content-heavy and dry class that I had hard time having full understanding on the class materials. I wish if I could have covered the materials at a little slower pace.. (Even though I know there are lots of things to be covered!) Other than that, thanks for being a professor who cares about the individual learning and improvements! :)

- I liked how he explained why answers are wrong, because it helped to make students not make those mistakes. Overall, great professor.

- I think that sometimes certain basic information is assumed that the students already know but not be the case, so a little of review wouldn't hurt.

- I very much enjoyed the pace the instructor took. Moreover the textbook was relatively clear and useful. The grading is fair as well. Maybe homework more often instead of more homework. As in less problems for any given assignment, but more assignments. from one a week to two a week with less problems and less material to cover would be good

- It would help if you had bigger rooms for office hours.

- Makes math somewhat fun

- Math 31B is my favorite class I've taken thus far. Not only did Professor Andrews present the material in a comprehensive fashion, but he was also able to show the how interesting the material we learned was. As a lecturer, Professor Andrews is terrific. His notes are organized and he's always willing to stop and answer questions. Outside of lecture, he's incredibly helpful and ready to work on homework problems or go into depth about a certain topic. His exams aren't too bad if you keep up with the material enough to understand it. Some of his questions can be a bit tricky, but going to office hours and doing the homework will prepare you just fine.
  Overall, Professor Andrews taught 31B incredibly well and I'm so glad I had him as a professor.

- Math teachers that care about their students are few and far between at UCLA. Professor Andrews is simply wonderful. He is absolutely amazing.

- Michael is an excellent teacher, I would love for him to continue teaching here in the future. He is always available, and you can tell he really cares about teaching students math, even though he has to wake up early (no one likes doing that). His grading scheme is fair, and allows for students who didn't perform so well to have the chance to pass the course. His office hours are helpful, and he goes in-depth when answering questions. Exams aren't too bad, but I'm an idiot so I failed both.

- Michael is an overall good professor. Especially for his first year, he put in a lot of effort to be available and has tried very hard. Though his teaching can be a little sporadic and difficult to follow he is still one of my better math professors. With a few years of experience at UCLA he could become a strong teacher.

- Michael is the best math professor I have had by far. I like the way he explains math in colloquial language rather than direct mathematical terminology (while he still does a good job doing this as well). My favorite part of his teaching is the fact that he introduces the concept/theorem first and then follows with multiple examples. I like the fact that these examples are similar to our homework problems and midterm questions. I also appreciate the practice midterms and review sessions he holds. I think he did well this quarter in teaching the course material. The only suggestion/comment I could add is for the latter sections of this class (involving the various infinite series theorems) at the end he could make a list encompassing and listing all the series explaining which theorem should be used for which scenario/ series. I just struggled knowing how many theorems there were and when to use them but other than that, Michael did an exceptional job!

- Over the past two quarters with him (Math 31A in Winter 2016), I feel like I was able to learn way more than I thought I was capable of. Math was not my strongest subject coming in, so I was initially nervous taking this course. However, his explanations in both lectures and office hours made it easier for me to understand concepts that I would have been completely confused about with just the book. I felt the exams were very fair (both questions/format and grading wise), as he taught and explained exactly what was going to be tested. One thing I wish was different was the timing of the lecture materials and the homework sections. It sometimes seemed like the lectures were too ahead of the homework. However overall, I truly enjoyed taking Math 31B with Professor Andrews this quarter!

- Overall it was a good course. One of the things that was really helpful was that Prof. Andrews had office hours twice a week, so even though I could't make it on one day, I could make it on the other. Office hours were really helpful for me because the material was reviewed again through homework problems and examples. It was great having Prof.Andrews for both Math 31A and 31B.

- Professor Andrews is a dedicated and helpful math professor. He was always available for help whether on Piazza or during office hours.

- Professor Andrews is a well-prepared and knowledgeable person who cares about his students success. He always has office hours and during lectures he presents the material in a way that is easy to understand while maintaining the strong mathematical foundation. His grading scheme,tests, and teaching are formatted in a way where one single grade doesn't determine your overall position in the class. his grading scheme is formatted in a way to keep students motivated to work harder.

- Professor Andrews is a wonderful teacher. I struggled with Math 31B, and this was my second time taking it after not having done math for two years. I no longer find math extremely difficult, and found it enjoyable to learn this time around. I wish he had been my professor the first time I took the class.

- Professor Andrews is always willing to help in and outside of class. His office hours are very helpful.

- Professor Andrews is great. When he teaches, he is very organized, however in this course, I felt like he was rushed, which caused him to skip steps. This made learning the concepts a little confusing. The exams are fair, and he sends great test prep.

- Professor Andrews is hands down the BEST professor I have had at UCLA. He is so kind, helpful, and really truly cares about his students. He is easy to understand, funny, and very responsive. Honestly, UCLA needs more professors like him.
  I believe he should also be given the freedom to teach what he wants to teach because it seems like the curriculum is not truly what students need to be learning.
  Bottom line, he rocks.
  Thanks Professor for being amazing!!!

- Professor Andrews is my favorite professor so far at UCLA and by far the best math professor at UCLA!! He is awesome! I almost cried today at my last lecture. Even though the lectures were at 8am i was able to wake up easily because I like coming to his classes so it wasn't even difficult. I'm so glad he was my professor for 31B. I have heard of awful stories about 31B so I was terrified going into it but Professor Andrews made me feel at ease and his humor during lectures kept me focused. THIS IS WHAT UCLA NEEDS. Even though I'm not doing that well in his class because I made dumb errors on the midterms I think I have learned so much and I wouldn't have learned so much or so easily if I didn't have such a great professor. Professor Andrews definitely needs some sort of recognition for being the best math professor because everyone I have talked to really likes him too and thats the only reason they took his class. Also, he doesn't make his midterms impossible like other professors, he just makes them difficult but doable yet still challenging. Thank you for an awesome quarter Professor Andrews! I will 10/10 recommend anyone that needs to take 31 series to take him! We need more teachers like him.

- Professor Andrews makes class fun and engaging, which is helpful in learning difficult topics. He is extremely approachable and is easy to contact. He cares a lot about his students' understanding of concepts and helps prepare us for examinations by providing us with practice exams.

- Professor Andrews makes learning math not so bad. He is very concerned with the students' learning and makes sure we all understand it before moving on to other sections. I felt that I have learned more math in this quarter than all four years of high school.

- Professor Andrews makes the class enjoyable. Its easier to understand the material when you like going to class. Homework and exams are EXTREMELY fair. Good teaching methods.

- Professor Andrews most definitely made this course easier to bare. He was my professor for Math 31A, as well, and on the first day he blatantly stated that the material was going to be extremely difficult to learn. He was right; these concepts were extremely hard to grasp, but Prof. Andrews helped pave a much smoother road to understanding Calculus. I could tell that he understands what he is explaining and, not only that, he cares enough to explain in various ways to ensure that we understand. Prof. Andrews continuously helped throughout each section of the course. Not only is he extremely well at teaching in front of 200 students, but he is also amazing at teaching a small group of us. He was our professor, but he did not abuse his power as one or place himself on a pedestal. He showed his humbleness and shared his personality with us. Sadly, I do not think he will be my professor in any of my next classes while I am attending UCLA and for that I am very disappointed. Professor Andrews was a marvelous teacher.

- Professor Andrews was a great math professor. You could tell he really cared about student learning because he made himself very available through office hours (total of 3 hours per week) and also made study guides for his class. Math can be very intimidating at UCLA, but he definitely tried to ease some common student anxieties.

There were times that I felt that the short lecture time (50 minutes M, W, F) didn't permit him to go into as much detail as he had hoped. Sometimes towards the end of lecture he would have to rush and omit certain steps in a problem he was solving, which was sometimes confusing.

I wish homework was worth a larger percentage of your overall grade, as it was a lot of work for only 10%.

- Professor Andrews was amazingly helpful and kind. He seems to want the best for his students and I feel like he wants us to succeed. He is a great teacher and his practice questions are very helpful. He is the best math teacher I've had in my life.

- Professor was approachable and would sometimes stay after his office hours to answer any remaining questions. His availability allowed students to feel comfortable asking for help.

- Recently, I read a 2 page review about another math teacher. It talked about his ineffectiveness as a teacher and his lack of care for his students. I totally support making 2 page reviews of complaints but I also believe in making 2 page reviews of compliments. Professor Andrews is the best professor I've had at UCLA. Before coming here, I could do math and get around things with tricks and formulas but I didn't understand everything I was doing and it annoyed me. I wanted to understand where things came from and at the same time know how to apply because it's not only knowing what an integral is but knowing how to take one. I understand both things now thanks to professor Andrews. He has a thorough knowledge of math and a clear passion for the subject. He manages to keep the class engaged which is not an easy thing to do at 8am. He is very available, holds extra office hours whenever needed and welcomes any type of question during said hours. His tests might be hard at times and yeah they might not have the same difficulty level as did midterm 1 of 31A (of course they don't, the average was 90% what did we expect), but the questions go along the lines of what we cover in lecture and that is honestly ALL we ask for. He explains everything and every explanation is followed by examples. His lectures go together with the book, which is not something you can say about every UCLA teacher, and there is no contradiction between the two. He compiles a summary of every chapter we go over when midterms and finals are approaching and uploads it to the class website for our use. I think people don't usually do long reviews when a teacher is good but I think it is important and it doesn't take more than 5 minutes so why not. I think professor Andrews could teach 3B series, 31 series and upper division math classes because he rocks and that is all. (Please don't let the use of the word rocks diminish the objectiveness of my review, thanks)

- Since this is my second time retaking the class (after nearly failing fall quarter with a different professor) I was hoping to better understand the material from a superb instructor. I am happy to say that my understanding (and grades) have increased drastically. Professor Andrews brought passion, jokes, and understanding to the course, allowing students to not only to better learn the material, but have a more bearable experience at 8am three days a week.

I am very grateful for Andrews; his grading systems, course planning, utilization of Piazza, and ability to teach helped me not only finally comprehend the material much strongly that earlier, but also supported the development of critical thinking skills through teaching the more abstract principals of the coursework, but enough to not distract us from the themes of the course.

Professor Andrews, simply put, was an incredible instructor!

- Still the only professor I bother filling out evals for because he's had an actual influence on my math education. Clear in lecture, very accessible outside of office hours, and practice exams are actually similar to the real ones. My only qualm is that I can't take him for 32A next year.

- Such a sincere professor!!!

- The colloquial terms Andrew used to explain rather difficult mathematical theories and concepts made

the material more understandable and approachable. The schedule for what section the professor will cover on which day actually helped me stay on track. The wide availability of office hours from the professor and the TA's made me feel supported in my learning process. The grading was fair. I appreciated how quickly they returned the midterms. Practice midterms helped.

I wish there was a better way to LEARN FROM the weekly hw. It was hard to figure out how to correctly solve the problems I got wrong on the HW.

- The course itself is feasible and the instructor is what makes it even better. I like how he wants us to understand the math and not just get the right answer. I love how he disproves the methods of the book because the math is not what the book always says. Sometimes we need to be technical about the math because there are always many methods to solve a given problem. I also like the fact that he does office hours from the top of his head without having to refer to his notes or the working of the problem. His use of piazza is also good for the class.

- The instructor made mistakes all the time.The ranking system is highly flawed and should be amended.

- The instructor made the lecture fun and easy to learn. The examinations were always on materials we learned in the class. I liked how the instructor released study guides before major midterms and exams.

- The instructor would take time out of his free time to have review sessions to help us prepare for the exams, which we all really appreciated. Also, his enthusiasm was very appreciated to learn the material, it didn't make it seem as difficult. Overall, great instructor.

- The lectures professor Andrews lectured were all very good. He teaches the material being covered very well and provides many examples which helped me understand what he is lecturing in class. The grading was fair.

- The professor for this class was amazing. He was extremely helpful and went out of his way to help if you asked him for help. There was no issue with the book that was the professors fault and his grading terms are extremely fair.

- The teaching was great, one of the few instructors I've had that seems like he really wants to help the students and teach them. The course did feel a little rushed since the small amount of time in a quarter and I felt myself getting behind very easily. Also, the exams were very difficult for me even though I understood the concepts and I studied and practiced intensely before each midterm. I received very very low grades because on the exams I encountered problems I had not seen on the practice problems or in class. Also there were so few problems on each midterm that if I made a mistake on one problem I would instantly get a very low grade; it did not leave much room for me to do well. Also I worked hours and hours on the homework but it is only 10% of the grade which I think is slightly unfair and I think that that should be more heavily weighted. I received A's on my homework assignments because I did them thoroughly and slowly but I got F's on the midterms because my homework was much easier than the exam I found. However, the class overall I found was very well taught and the instructor's way of teaching and attitude towards the students was very positive and appreciated.

- This professor is great at introducing mathematical concepts and makes every effort to make abstract concepts digestible. The best part about this professor is his sense of humor and liveliness that helps to engage students in his lectures. He also tends to realize when he is telling a mathematical porky due to his higher level of understanding. There isn't much left to say about this professor. His classes have been excellent. Keep on trucking.

- Very helpful in office hours.

- With Professor Andrews, I improved my midterm scores from a C average to a A-B average. He is extremely helpful and speaks colloquially in his lectures, which I personally prefer, in that it generally betters the entire learning environment by making things easier to understand.

- Without a doubt, Micheal Andrews is a true asset not only to UCLA but to entire math community in the world. His level of engagement with the class and how much he devotes himself for his students to

learn math is beyond reality. He should be given the opportunity to teach any course he wants. With his passion for teaching there's nothing that this instructor can't overcome. As his student for two quarters for math, it was an honor to be in his class. The way he teaches makes you a lot less alienated from any of the difficult materials that we covered. It will be a true loss to any student who won't be able to take 32A from him next year. He is the kind of professor that changes your entire approach to course. As a student who considered math as her deficiency for so long, now I feel like there's no math problem that I can't overcome. Through making me understand math, he also indirectly helped to face problems in life. I've become a true analytical thinker and a problem solver all thanks to him!

- YOU ARE WONDERFUL MICHAEL PLEASE STAY AT UCLA UNTIL YOURE AT LEAST 70 YEARS OLD

- good instructor, positive attitude and helpful

- i think professor Andrews did a great job of teaching the course.

- lectures towards the end moved too fast for the homework

- posting more practice sets or past exams would be very helpful

- very nice professor, and very helpful when we have problems