



STAT 22000 3, STAT 22000 3 - Statistical Methods and Applications - Instructor(s): Fei Liu

Project Title: **College Course Feedback - Autumn 2023**

Number Enrolled: **59**

Number of Responses: **21**

Report Comments

Opinions expressed in these evaluations are those of students enrolled in the specific course and do not represent the University.

Creation Date: **Friday, February 2, 2024**

What are the most important things that you learned in this course? Please reflect on the knowledge and skills you gained.

Comments
I learned basic methodology in statistics
probability, different types of distributions, graphs, etc.
probability, z scores, p scores, t scores
Learning how to determine which tests of significance are appropriate for a given experiment was one of the most important things I learned in this course. It was also helpful to learn more about the theory behind formulae, as well as interpreting experimental results in light of statistical conclusions. One other major motivation for taking this course was to gain familiarity with using R to perform statistical analysis and produce data visualization.
In this course, I learned how to use statistical principles and techniques to analyze and interpret data, especially probability distributions, hypothesis testing and data visualization techniques.
this course worked as a ground for further rigorous statistics courses in my future
Basic tools for statistical analysis (margin of error, probability, p-value)
How to do statistical analysis and probability.
I learned how to manage/manipulate and present data in R as well as how to conduct hypothesis tests and construct confidence intervals.
I learned more about linear regression.
everything.
The most important things I learned were how to interpret and read data, how to discuss probabilities and confidence intervals, and how to understand statistics and probabilities when presented in everyday situations, such as in an article.
Everything but R coding
I learned how to understand data and the ways it is represented.
To do probability problems well finally and how to handle hypothesis testing for different types of experiments.
I did, technically, learn some things. But I am afraid not much.
I learned about samples, experimental and observational studies, normal distributions, binomial distributions, and line regression.
Statistics and analyzing the z and t tests.
Graphs (histograms, bar charts, etc...), probability, statistical testing

Describe how aspects of this course (lectures, discussions, labs, assignments, etc.) contributed to your learning.

Comments
lectures were mostly helpful and the homework was very useful, especially the optional questions were similar to the midterm questions
i went to nearly every lecture and they were helpful. the collaborative learning workshops actually did help to solidify the learning. homework was sort of tough at times; in my opinion, there isn't a great rationale to include R in the 220 class.
I am deeply appreciative of the flexibility of attendance in this course. There are four sections, two of which are in the early morning and two of which are in the late morning, and since the material is identical in all sections, we are able to decide which to attend. Additionally, one early morning and one late morning section are accessible via a live Zoom meeting and are also available to view later as recordings on Canvas. This is highly beneficial for students such as myself who focus and learn better remotely. However, I also think it is highly beneficial to have in-person interaction and collaboration with other students in the course, which is why I signed up for Collaborative Learning (CL), a weekly workshop wherein students work together to complete practice problems and can seek guidance from a section leader (a student who previously did well in the course). I'd recommend CL to any student in the course, regardless of skill level; students who have a poor understanding of the material benefit from collaboration with other students, and students who already have a strong understanding can gain an even deeper mastery of the material by being challenged to explain concepts to those who are struggling.
I liked our homework assignments quite a bit, and feel that they prepared me well for exams. Nearly every homework assignment gave us the ability to use R to perform analyses and generate figures, and was friendly to students who had no coding experience. I appreciated the opportunity to get more practice with coding, but if your primary motivation for taking this course is to learn how to code independently, you're looking in the wrong place. A great deal of the code for homework is pretty much just copy + paste from the lab assignments. There are certainly alterations that need to be made between lab and homework code that necessitate basic understanding of the syntax of R, but if you want to start ground-up then you'd be better off with an introductory Python or R class instead.
record lectures and assignments is very helpful.
collaborative workshops are great: it is an extra hour and a half per week but you can def bag a better grade. super helpful. prof liu is the goat
This course involves collab learning sessions which I would reccomend. Assignments, and lectures.
I ended up going to Burbank's lectures for the rest of the quarter because they were incredibly helpful and easier to understand the material than Liu's lectures. The homework was also good practice.
The lectures were very detailed and example problems were helpful in demonstrating how you apply concepts.
Lectures taught me a lot.
each lecture was clear and explained well. the lectures being recorded was essential. the homework questions relating to the midterms/exams were very helpful and establishing what is going to be on the exams with practice problems was very helpful.
Collaborative learning sessions outside of lectures were very helpful and allowed me to review topics that I was confused about in class with my peers, as well to ask questions of my TA about these topics. Discussions were the most helpful aspect of this class for my learning.
Good lectures
All aspects allowed me to understand concept related to what we learned and put them into practice.
The lectures, textbook and discussions were very helpful.
The problem sets were the most useful for learning
I was in Fei Liu's class, which were somewhat useful, but attended Burbank's lectures for the last half of the quarter because they were must easier to follow. I also had discussion group for an hour and a half every week which was actually very useful.
The homework contributed to my learning by applying the resources gained during the lectures.
The workshop class was really helpful and prepared me more for homework and exams! It's worth taking and should help your grade if you attend the workshop sessions.

Please respond to the following:

	Mean	Median	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
This course challenged me intellectually.	4.30	4.00	0.00%	0.00%	15.00%	40.00%	45.00%
I understood the purpose of this course and what I was expected to gain from it.	4.15	4.00	5.00%	0.00%	15.00%	35.00%	45.00%
I understood the standards for success on assignments.	4.00	4.00	5.00%	5.00%	10.00%	45.00%	35.00%
Class time enhanced my ability to succeed in graded assignments.	4.05	4.00	5.00%	0.00%	20.00%	35.00%	40.00%
I received feedback on my performance that helped me improve my subsequent work.	3.89	4.00	0.00%	5.26%	31.58%	31.58%	31.58%
My work was evaluated fairly.	4.10	4.00	5.00%	0.00%	10.00%	50.00%	35.00%
I felt respected in this class.	4.10	4.00	0.00%	5.00%	20.00%	35.00%	40.00%
Overall, this was an excellent course.	3.95	4.00	5.00%	5.00%	10.00%	50.00%	30.00%

Additional comments about the course:

Comments
i'm really bad at stats but this was an objectively well-run class
After midterm is move so fast that, need more time to consider about course material.
i love prof liu
Fei Liu depends on the slides heavily. This course also squishes too much content into show classes and 9 weeks. Most of the learning that will be done will be on your own.
It was clear my professor knew what she was talking about, and she would respond well over email, just something about this class didn't click for me. I had dual enrollment because some of my classes overlapped with a lab time so I had to watch some lectures on zoom which didn't help, but overall I feel this fell too far behind, then sped forward too quickly, didn't do enough practice problems, and more importantly the practice problems we did do were done by the lecturer we never got to do guided practice on our own in class and I think that would've been usefull.
It does not matter which professor you have on your schedule, except when it comes to midterm and final exam times, but I would attend Burbank's lectures because she is very organized and easy to follow. I would also enroll in the section with discussion group because attendance boost your grade and working through problems with other people and the TA is very helpful for understanding what you do not know.
The course starts out really easy, then get more challenging later in the quarter. The lectures are straight from the textbook and all of the material is really straightforward. All lectures for all sections are the same, so you can go to a different section if you want (this is so helpful). Both instructors (Liu and Burbank) are great.

I would recommend this course to:

	No	Yes
Highly-motivated and well-prepared students	5.00%	95.00%
Anyone interested in the topic	15.00%	85.00%

Thinking about your time in the class, what aspect of the instructor's teaching contributed most to your learning?

Comments
the lectures were helpful, although i got bored very quickly
lectures going over the slides were useful
Going through practice/example problems step-by-step.
the recorded zoom lectures and practice midterms! so helpful.
recorded lectures !!!
my instructor was not the best. I respectfully suggest that you take kendra burbank. I often found myself frustrated in lectures. She zooms through the slides and is not the best at answering questions.
I went to Burbank's lectures and they were very helpful in understanding the materials and how to apply them.
Professor Liu's thorough explanation of concepts while doing example problems was helpful.
They provided the methods to solve quesitons.
I love how each topic was thoroughly described then was followed by practice problems and examples. everything was clearly presented and laid out.
The instructor's annotated slides were most helpful for my learning and for reviewing for exams and homework assignments.
Nothing
The professor was very clear in their own understanding of the course that allowing the student to understand the material well.
How harder topics were repeated several times and also the class recordings.
Professor Liu was very good at responding to my emails and I really appreciated that.
The slides.
Lectures and collaborative learning
Instructor was very willing to answer questions from the class, and lectures guided you through different questions related to the topic which helped students understand applications of the material and how they fit into real life situations. Professor Liu is a really kind and understanding instructor; she is there to help if you need it for any reason.

What could the instructor modify to help you learn more?

Comments
nothing, i had a great experience
maybe a study guide with formulas could be helpful
Cut a bit of material from each lecture because she was often rushing and this can make learning harder.
nothing
Less talking at us. Being more enthusiatic and passionate. Asking questions and making sure students understand the content.
Lui's lectures were very confusing and often rushed which is why I attended Burbanks.
I think the structure of the course could be altered to include some of the more difficult concepts like hypothesis testing earlier in the course.
They can resolve questions in a better way.
nothing
I think that the instructor could have hosted additional office hours because I was not able to make all of the time slots open, and that would have been more conducive to my learning.
More practice in class
More practice in class.
Take more questions.
I think more independent, but guided learning in class could've been very useful. Despite my issues with this class I want to make it clear that I liked professor Liu a lot. She was very nice and responsive to emails, she clearly knew what she was talking about, I just had some issues with the way she taught the course and the course was structured I think.
Be clearer and make sure to understand the student's question so that the answer is not just a repetition of what the slides already say.
Lectures could be more original/not from the textbook, this would have motivated me to go to class more.

The Instructor . . .

	Mean	Median	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A
Organized the course clearly.	4.10	4.00	0.00%	5.00%	20.00%	35.00%	40.00%	0.00%
Presented lectures that enhanced your understanding.	4.20	4.00	0.00%	10.00%	5.00%	40.00%	45.00%	0.00%
Facilitated discussions that were engaging and useful.	3.75	4.00	0.00%	20.00%	15.00%	35.00%	30.00%	0.00%
Stimulated your interest in the core ideas of the course.	4.00	4.00	0.00%	15.00%	10.00%	35.00%	40.00%	0.00%
Challenged you to learn.	4.10	4.00	0.00%	5.00%	15.00%	45.00%	35.00%	0.00%
Helped you gain significant learning from the course content.	4.16	4.00	0.00%	10.53%	5.26%	42.11%	42.11%	0.00%
Was available and helpful outside of class.	4.16	4.00	0.00%	0.00%	20.00%	40.00%	35.00%	5.00%
Motivated you to think independently.	3.95	4.00	0.00%	10.00%	15.00%	45.00%	30.00%	0.00%
Worked to create an inclusive and welcoming learning environment.	4.42	5.00	0.00%	0.00%	10.53%	36.84%	52.63%	0.00%
Overall, this instructor made a significant contribution to your learning.	4.05	4.00	0.00%	10.00%	20.00%	25.00%	45.00%	0.00%

Please include the name of the TA/CA/Intern you are evaluating. What aspects of the TA's teaching contributed most to your learning? What could the TA modify to help you learn more? Please include any additional feedback for the TA/CA/Intern.

Comments
Roshini was available for us and was friendly during the collaborative learning sessions. She knew the course material and did a good job overall.
Suhani Agrawal was the section leader for my Collaborative Learning section. She was an effective leader and was very knowledgeable. She generally gave pretty good explanations and was responsive to emails.
roshini ! amazing ta and so incredibly helpful
Suhani Agrawal
trinity was a great leader for our collaborative workshop sessions !!
Trinity. She was helpful.
collaborative learning helped because it allowed students to talk and go through problems together, but i did not particularly like the structure.
Roshini Balan; Roshini was most helpful during our collaborative learning sessions and was always available to provide answers to questions and teach any topics that students were struggling with.
Avery Linder
Roshini Balan was an excellent TA, she really knew what she was talking about and answered questions really well.
My discussion group TA was Suhani. She was great. I loved her. She was always trying to help and she even gave us a formula sheet she made for the class.

The TA/CA or Intern. . .

	Mean	Median	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A
Facilitated discussions that supported your learning.	4.42	4.50	0.00%	0.00%	8.33%	41.67%	50.00%	0.00%
Gave you useful feedback on your work.	4.50	4.50	0.00%	0.00%	0.00%	50.00%	50.00%	0.00%
Stimulated your interest in the core ideas of the class.	4.25	4.00	0.00%	0.00%	16.67%	41.67%	41.67%	0.00%
Challenged you to learn.	4.42	4.50	0.00%	0.00%	8.33%	41.67%	50.00%	0.00%
Helped you succeed in the class.	4.42	4.50	0.00%	0.00%	8.33%	41.67%	50.00%	0.00%
Was available and helpful outside of class.	4.36	4.00	0.00%	0.00%	8.33%	41.67%	41.67%	8.33%
Overall, this individual made a significant contribution to your learning.	4.42	5.00	0.00%	0.00%	16.67%	25.00%	58.33%	0.00%

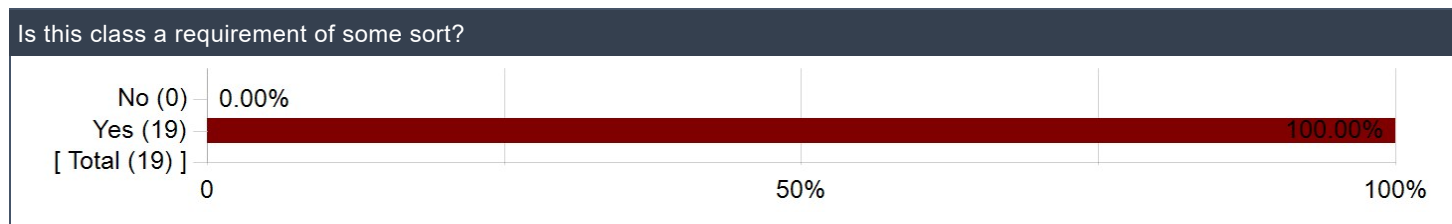
How much did the following elements of the course contribute to your learning gains?

	Mean	Median	No Gain	A Little Gain	Moderate Gain	Good Gain	Great Gain	N/A
Laboratory Experience	2.00	2.00	0.00%	8.33%	0.00%	0.00%	0.00%	91.67%
Field Trips	N/A	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Library Sessions	N/A	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Review Sessions	4.56	5.00	0.00%	0.00%	0.00%	30.77%	38.46%	30.77%
Writing Seminars	N/A	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

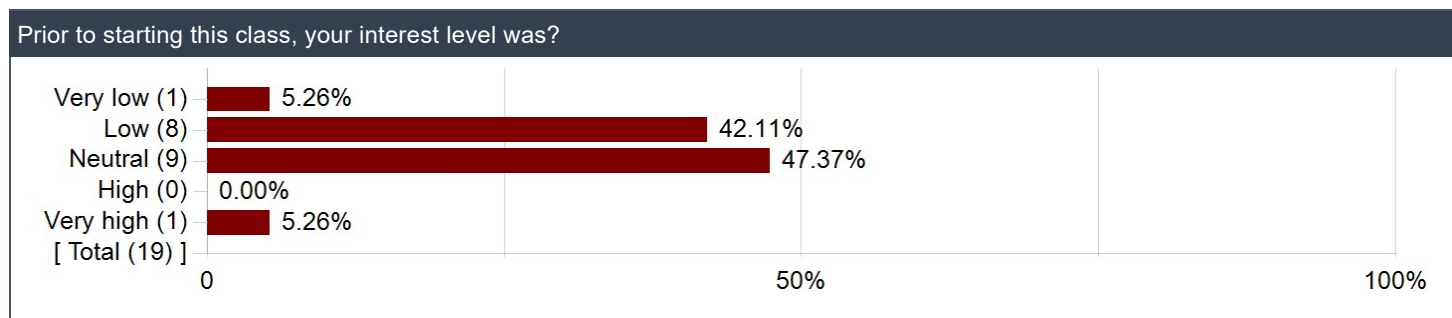
Other course elements not mentioned above:

Comments
we had the collaborative learning sessions, which were super helpful for review. it was basically like designated practice time, except you got to work through the problems with others. highly recommend you attend the clics.
Collaborative learning workshops were helpful
weekly Collaborative Learning Workshop: Great Gain
collaborative workshops
collaborative learning
Collaborative learning session

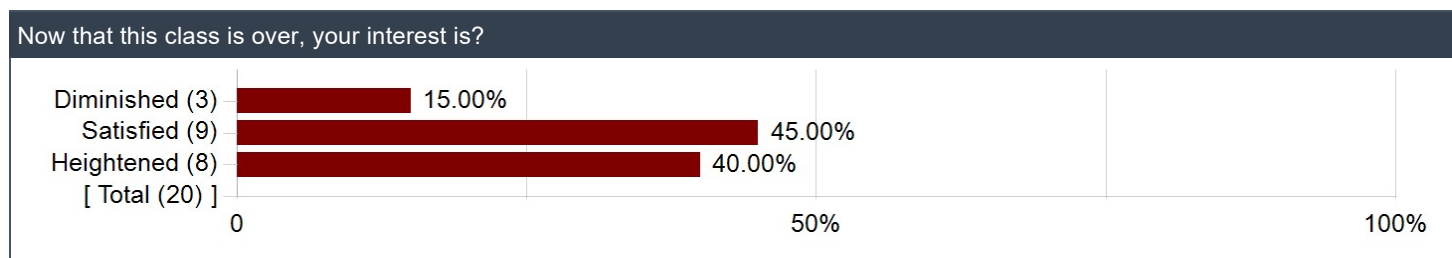
Is this class a requirement of some sort?



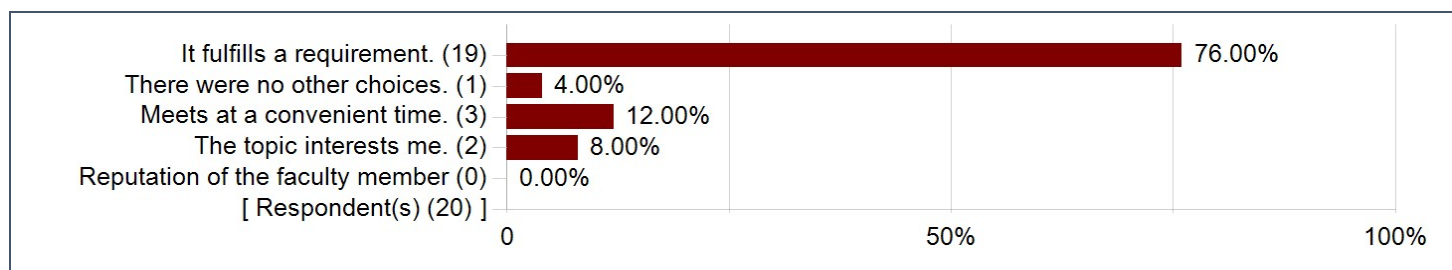
Prior to starting this class, your interest level was?



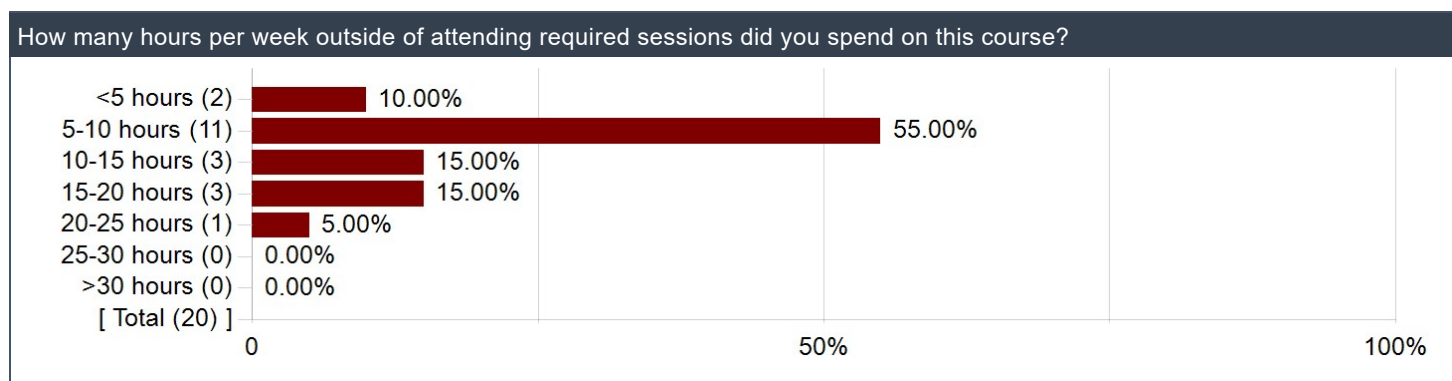
Now that this class is over, your interest is?



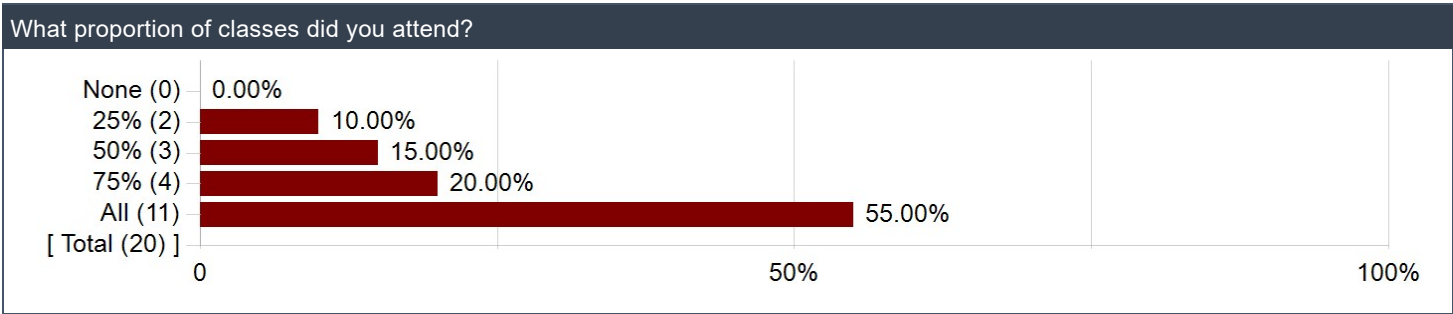
Why did you choose to take this course? (Select all that apply)



How many hours per week outside of attending required sessions did you spend on this course?



What proportion of classes did you attend?



Please comment on the level of difficulty of the course relative to your background and experience.

Comments
the part before the first midterm was very easy. after the first midterm it got moderately difficult but nothing i couldn't do.
Context for background/experience: took a statistics course 7 years ago and am familiar with thinking statistically due to my background in biological research. Based on this, on a scale of 1 to 10 (easiest to hardest), the difficulty level for me was 4.
similar to ap stats!
total too fast after midterm
i did further statistics as a part of my further mathematics a level in high school.
As somebody without a background in stats. The homework requires a lot out of you. This is not a class you can make it through alone.
It was difficult and the exams were sometimes not accurate representations of the material we discussed in class. The best thing to do is study the homework and attend Burbank's lectures.
This course is not too difficult, but the topics after the midterm are significantly more complicated than the topics covered before it.
medium
Understood how to do everything
It was hard considering I struggle with math usually
the class material didn't always feel difficult but I also didn't always do as well as I expected so there's some discrepancy there
I had very little stats experience from a related class in high school and I found the class manageable. Definitely gets harder towards the end but as long as you study you are fine
Had absolutely no background in statistics; this course challenged me to develop skills that will be useful as a researcher who will need to use statistical tests and present research findings in an interesting way.